

MIL-M-23618G(AS)  
12 June 1987  
SUPERSEDING  
MIL-M-23618F (AS)  
10 January 1979  
AR-86  
4 January 1972

## MILITARY SPECIFICATION

### MANUALS, TECHNICAL; PERIODIC MAINTENANCE REQUIREMENTS: PREPARATION AND PRINTING OF

This specification is approved for use within the Naval Air Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

#### 1. SCOPE

1.1 Scope. This specification prescribes the general style, format, and minimal technical content for the preparation of Periodic Maintenance Requirements Manuals (PMRM's) for use at the organizational and intermediate levels. This specification shall be used to prepare aircraft weapon system, quick engine change assembly, powered aerial target (missile), support equipment, automatic test equipment, airborne armament equipment or special stores, powered surface target, and aviation life support systems PMRM's.

1.2 Classification. The types of PMRM's covered by this specification are:

a. Aircraft Weapon Systems PMRM's (see 3.2.1)

- (1) Periodic Maintenance Information Cards (PMIC) Manuals (see 3.2.1.1);
- (2) Turnaround Checklist (see 3.2.1.2);
- (3) Daily/Special/Preservation/Conditional/Aircraft Service Period Adjustment (ASPA) Manuals (see 3.2.1.3); and
- (4) Phased Maintenance Requirements Manuals (see 3.2.1.4).

b. Quick Engine Change Assembly (QECA) PMRM's (see 3.2.2)

- (1) Periodic Maintenance Requirements Manual (see 3.2.2.1).

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commanding Officer, Naval Air Engineering Center, Systems Engineering and Standardization Department (SESD) Code 93, Lakehurst, NJ 08733-5100, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC No. N/A

TMSS

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## c. Airborne armament equipment or special stores PMRM's (see 3.2.3)

- (1) PMIC manuals (see 3.2.3.1); and
- (2) Daily/special manuals (see 3.2.3.2).

## d. Support equipment (SE) and Automatic Test Equipment (ATE) PMRM's, (see 3.2.4)

- (1) Preoperational checklist (see 3.2.4.1); and
- (2) Claendar/hour/start/special/preservation/conditional manual (see 3.2.4.2).

## e. Powered aerial target (missile) PMRM's (see 3.2.5)

- (1) Acceptance/initial build-up manual (see 3.2.5.1);
- (2) Prelaunch manual (see 3.2.5.2); and
- (3) Postlaunch/servicing manual (see 3.2.5.3).

## f. Powered surface target PMRM's (see 3.2.6)

- (1) Preoperational checklist (see 3.2.6.1); and
- (2) Periodic maintenance manual (see 3.2.6.2).

## g. Aviation life support systems (ALSS) PMRM's (see 3.2.7)

- (1) Periodic maintenance manual (see 3.2.7.1).

## 2. APPLICABLE DOCUMENTS

### 2.1 Government Documents.

2.1.1 Specifications and standards. The following specifications and standards form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation.

### SPECIFICATIONS

#### FEDERAL

|             |   |   |
|-------------|---|---|
| UU-P-258    | - | Paper, index  |
| FED-STD 313 | - | Material Safety Data Sheets;<br>preparation and the submission of |

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|             |   |   |
|-------------|---|---|
| MIL-P-38790 | - | Printing Production of Technical Manuals, general requirements for        |
| MIL-M-81748 | - | Manuals, Technical; Rapid Action Changes; requirements for preparation of |
| MIL-M-85337 | - | Manuals, Technical: Quality Assurance Program; requirements for           |

## STANDARDS

## MILITARY

|              |   |   |
|--------------|---|---|
| MIL-STD-12   | - | Abbreviations for Use on Drawings and Technical Type Publications |
| MIL-STD-1388 | - | Logistic Support Analysis   |

2.2 Other Government Documents and Publications. The following other Government documents and publications form a part of this specification to the extent specified herein. Unless otherwise specified, the issues shall be those in effect on the date of the solicitation.

## PUBLICATIONS

|                    |   |  |
|--------------------|---|--|
| DOD 5200.1-R       | - | Information Security Program Regulation                            |
| DOD 5220.22-M      | - | Industrial Security Manual for Safeguarding Classified Information |
| DOD 6050.5         | - | DOD Hazardous Material Information System                          |
| OPNAVINST 4790.2   | - | The Naval Aviation Maintenance Program (NAMP)                      |
| OPNAVINST 5100.23  | - | Navy Occupational Safety and Health (NAVOSH) Program               |
| NAVAIRINST 13120.1 | - | Fixed Wing Aircraft Structural Life Limits                         |
| NAVAIRINST 13130.1 | - | Rotorary Wing Aircraft Structural Life Limits                      |

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|  |   |  |
|--|---|--|
| NAVSUPINST 5100.27                       | - | Navy Hazardous Material Control Program  |
| MCO P1200.7                              | - | Military Occupational Specialties Manual   |
| NAVAIR 00-25-700                         | - | Technical Manual; preparation guide for technical writers, editors, and illustrators |
| AL-855TM-GYD-000                         | - | Technical Manual Quality Assurance Program Guide                                     |
| NAVPERS 18068                            | - | Navy Enlisted Manpower and Personnel Classifications and Occupational Standards      |
| Library of Congress. Catalogue #Z253.U58 | - | U.S. Government Printing Office Style Manual   |
| Public Law 91-596                        | - | Occupational Safety and Health Act of 1970 (84 Statute 1590)                         |

(Copies of specifications, standards, handbooks, drawings, publications and other government documents required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

2.3 Order of Precedence. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence. Nothing in this specification, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

### 3. REQUIREMENTS

3.1 General. The PMRM's shall provide general and specific instructions required to perform scheduled maintenance at the organizational and intermediate levels. The PMRM's consist of a series of scheduled maintenance requirements that provide a basis for planning, scheduling, and execution of scheduled maintenance. These requirements are performed at specific intervals that are based upon calendar time, flight hours, operating hours, or other events that affect the equipment performance. Inspection requirements, adjustments, checks, tests, and preventive maintenance that is to be performed on aircraft by an intermediate level of maintenance activity shall be sequenced in the appropriate location on the maintenance task and quality assurance cards.



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3.1.1 Source Data. The logistics support analysis (LSA), as characterized by MIL-STD-1388, is the overall systems engineering process for determining logistics support requirements for acquisition programs. An element of this process is maintenance planning and analysis (MPA) which develops, among other maintenance elements, preventive maintenance requirements. The contractor shall develop and document scheduled maintenance requirements from approved maintenance plans derived from the MPA process. PMRM's for aircraft weapon systems, equipment, or support equipment not using the Reliability Centered Maintenance (RCM) concept shall be developed using existing data, such as 3-M data, safety center reports, engineering investigations, quality deficiency reports, etc.

Note: In order to preclude inconsistencies between airframe and engine PMRM's, coordination between the preparing activities should be maintained throughout the life cycle of the airframe/engine.

3.1.2 Form. The contract shall specify the form in which the PMRM's covered herein shall be furnished (reproducible copy, negatives) (see 6.2.1).

3.1.2.1 Type Size. Unless otherwise specified (see 6.2.1) type size for text and text on illustrations shall be 9 point after reduction. Type size for the title and phase cover cards shall be in accordance with 3.3.1 and 3.3.2.

3.1.2.2 Reproducible Copy. Reproducible copy (see 6.3.1) shall consist of all front matter cards, text cards, and illustration cards suitable for reproduction.

3.1.3 Style of Writing. The style of writing and the techniques used to produce a readable and comprehensive technical manual (TM) shall be responsive to the intended use of the manual and the requirements of user maintenance personnel. Text shall be factual, concise, and readily understandable. Unnecessary lead-in sentences, descriptive phrases, and vague and ambiguous terms shall not be used. Technical phraseology requiring a specialized knowledge shall be used only when no other word or phrase will convey the intended meaning. Quotation marks, capitalization, and underscoring shall not be used for emphasis. Words which have more than one meaning such as "replace" instead of "reinstall" shall not be used. Third person indicative mood shall be used for descriptive text. Second person imperative mood shall be used for instructions and shall be written as commands; e.g., "reinstall power supply." Articles shall be omitted except when required to prevent ambiguity or to facilitate understanding of the instruction. When space conservation is desirable, as in the case of testing and troubleshooting fault logic diagrams, the verb may also be omitted; e.g., "POWER switch to ON." The verb may be omitted only if the intent of the statement is clear to the user. Prepared text and writing styles shall conform to the guidance provided in NAVAIR 00-25-700.

3.1.4 Readability. Readability is measured using criteria based on the reader/user's ability to comprehend and retain the written information. To ensure that text material is both readable and comprehensive, the overall writing style shall be directed toward specific standards that will guarantee accomplishment of these objectives. Controlling factors include word length, sentence length, paragraphing, and word usage.

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3.1.4.1 Use of shall, will, should, and may. Use the word "shall" to express a mandatory or binding provision. "Will" may be used to express declaration of purpose. It may be necessary to use "will" in cases where simple futurity is required, i.e., "Power to the bombing mode will be provided through the navigational system." Use "should" and "may" whenever it is necessary to express nonmandatory provisions, or an acceptable or preferred means of accomplishment.

3.1.5 Abbreviations and Acronyms. The use of abbreviations and acronyms not listed in MIL-STD-12 shall be held to a minimum, and all shall be defined on the applicable front matter card. Abbreviations used shall be in accordance with the requirements of MIL-STD-12. In the event that a nonstandard abbreviation must be used because the manual is being prepared on composing equipment that cannot produce a certain abbreviation or symbol, the abbreviation must also be explained in the introduction to the manual.

3.1.6 Warnings, Cautions, and Notes. Operating procedures that, if not correctly followed, could result in injury to personnel or damage or destruction of equipment, shall be highlighted by notes, cautions, or warnings. Warnings and cautions shall precede the text to which they apply. Notes shall normally precede the text to which they apply; however, they may follow such text, if required for clarity. Warnings, cautions, and notes shall not contain procedural steps nor shall they be numbered. When a warning, caution, or note consists of two or more paragraphs, the applicable heading shall not be repeated above each paragraph. If it is necessary to use a combination of data, it shall appear in this order: WARNING, CAUTION, NOTE. Such inserts in text shall be concise and shall be used to emphasize important and critical instructions. Explanation of usage is as follows:

a. WARNING. Refers to an operating procedure or practice that, if not correctly followed, could result in injury, death, or long-term health hazard.

b. CAUTION. Refers to an operating procedure or practice that, if not correctly observed, could result in damage to or destruction of equipment.

c. NOTE. Refers to an operating procedure or condition that requires emphasis.

3.1.7 Health Hazards and Safety Precautions. Procedures prescribed for the operation and maintenance of equipment shall be consistent with the safety standards established by the Occupational Safety and Health Act of 1970, Public Law 91-596 and Executive Order 11807. When adverse health factors in the environment or in the use of equipment cannot be eliminated, appropriate precautions shall be specified. Safety precautions to be observed during the performance of periodic maintenance shall clearly identify hazardous conditions. When hazardous materials are involved, they shall be highlighted by warnings and cautions. Warnings and cautions applicable to hazardous materials shall be based on information contained in Material Safety Data Sheets (MSDS). Under the provisions of Federal Standard No. 313, MSDS's are required to be submitted for hazardous materials. In turn, MSDS's must be entered into the Hazardous Material Information System as required under the provisions of DOD 6050.5 and OPNAVINST 5100.23. Appropriate personnel protective devices shall be included. Additional information related to hazardous materials is provided in NAVSUPINST 5100.27, the Navy Hazardous Material Program.

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3.1.7.1 When hazardous materials are referenced in PMRM's, the following hazardous material statement shall be included in the introduction card. The statement shall be presented as expressed below and shall follow the introduction statement (see figures 8, 9, 10 and 11).

WARNINGS/CAUTIONS APPLICABLE TO HAZARDOUS MATERIALS

Warnings and cautions for hazardous materials listed in this manual are designed to warn personnel of hazards associated with such items when they come in contact with them by actual use. Additional information related to hazardous materials is provided in OPNAVINST 5100.23, Navy Occupational Safety and Health (NAVOSH) Program Manual, NAVSUPINST 5100.27, Navy Hazardous Material Program and the DOD 6050.5, Hazardous Materials Information System (HMIS) series publications. For each hazardous material used within the Navy, a Material Safety Data Sheet (MSDS) is required to be provided and available for review by users. Consult your local safety and health staff concerning any questions on hazardous chemicals, MSDS, personal protective equipment requirements and appropriate handling and emergency procedures.

3.1.7.2 Repetitive warnings and cautions. The descriptive language associated with any repetitive warning or caution associated with hazardous materials requiring integration in a lengthy procedure or duplicate procedure may be referenced by a properly placed symbol. At the first appearance of the repetitive warning or caution, the initial warning or caution shall be complete and shown with an identifying arabic numeral. If more than one of each warning or caution falls into the repetitive category, they shall be sequentially numbered within each task, starting with the numeral 1. At the second appearance, there shall be an abbreviated warning or caution and reference made to the applicable complete warning or caution. The corresponding numeric identifier shall also be indicated. This method shall be used within each maintenance requirements task, i.e., primary task card and its associated continuation cards (see figure 41).

3.1.8 Nomenclature Consistency. Nomenclature of identical systems, subsystems, equipment, support equipment, components, and parts of the end item shall be consistent throughout the PMRM's. The correct nomenclature shall be derived from one of the following sources (listed in the order of precedence): "AN" nomenclature, nameplate nomenclature, or nomenclature on the drawing from which the item was manufactured. Noun modifiers shall be added to the description of parts as required to assure positive identification (e.g., cotter pins/taper pins). Noun modifiers, once added for clarity, shall be used throughout the technical data. Simple identifying modifiers provided for attaching parts may be dropped. For example, "remove attaching bolt" is acceptable and preferred to "remove cadmium plated steel bolt" unless specific identification of one bolt within a group of similar objects is required. When an item is identified by a common name, both the common name and the correct technical name shall be clearly identified the first time it appears. Nomenclature corresponding to that appearing on the equipment in the form of decals, engraved legends, nameplates, or other markings shall be stated in text exactly as it appears on the hardware.

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3.1.8.1 Nameplate Nomenclature. If a portion of the name of a control or display appears as a label on the equipment, that portion shall be written exactly as on the label; e.g., "POWER switch," "MAIN PWR circuit breaker."

3.1.8.2 Designation of Equipment. The official designation of aeronautical/support equipment shall be expressed in specific terms such as model number, type, serial number range, or similar terms.

3.1.9 Reference Information. Operational and functional requirements for drones, airborne equipment, avionics, armament equipment including loading and off-loading requirements, shall not be included in maintenance requirements cards (MRC's). Information contained in other TM's shall not be paraphrased, abbreviated, or condensed in MRC's. Information considered essential to safety of flight, to avoid hazards to personnel, or to avoid potential damage or degradation of equipment may be included provided it does not exceed four card faces. Other TM's shall be referenced when they provide adequate criteria in the proper sequence. References to other TM's shall be by publication number or by publication number and work package (WP) number when referencing to a manual prepared in WP format.

3.1.10 Security Classification. Normally, the contents of PMRM's shall be unclassified. If classified information is applicable, it shall be contained in a classified supplement. Handling of classified material and the marking of classified reproducible material, manuscript, and illustrations shall be as specified in DOD 5200.1-R and DOD 5220.22-M.

3.1.11 Distribution Statement. A distribution statement shall be placed on each title card and title page (see 3.3.1.1 and 3.3.5).

3.1.12 Procedure Criteria.

3.1.12.1 Operational or Functional Check Procedures.

a. Justified procedures for scheduled checks of hidden functions shall be included in the PMRM (not referenced):

b. Justified procedures longer than four card faces shall be referenced (not included in the PMRM).

3.1.12.2 Removal and Installation Procedure.

a. The following applies:

(1) Procedures of four card faces or less shall be included in the PMRM (not referenced).

(2) Procedures longer than four card faces shall be referenced (not included in the PMRM).

b. Normally, procedures will be complete. Instructions such as "reverse removal procedures" shall not be used.

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c. If a removal or installation procedure is obvious, the primary step shall be given as a command and the details shall not be required; e.g., "remove WRA" is sufficient when the method of removal will be obvious to the technician.

#### 3.1.12.3 Inspection Procedures.

- a. Inspection criteria for all inspections shall be included in the PMRM.
- b. Referencing technical manuals for tolerances or wear limits is acceptable.

3.1.12.4 Adjustment, Calibration, or Repair Procedures. Information such as standard shop practices, calibration or adjustment procedures, repair procedures, or means of rectifying conditions (including the arrestment of corrosion and troubleshooting to find the cause of malfunctions) shall not be included or referenced in the PMRM.

3.1.13 Illustrations. Illustrations shall consist of simple line drawings and shall have sharp, clean, black lines on a white background. Lines shall have sufficient weight to ensure clear reproduction. Unacceptable art includes lead pencil drawings, office copies, photostats, half-tone prints, and illegible lettering.

3.1.14 Zonal Inspection. A general inspection of a specific area of aircraft or support equipment where an existing scheduled inspection is being accomplished. These inspections are for obvious defects, such as leaks, frayed cables, cracks, corrosion or physical damage and does not require disassembly, special tools or test equipment. Zonal inspections are performed in conjunction with other scheduled maintenance tasks by the rating assigned. For example, an AQ assigned to perform an inspection on a radar antenna might also be assigned a zonal inspection of the entire compartment for obvious defects.

3.1.15 Duplication of Inspections. Inspections performed at one interval shall not be duplicated at any other interval.

3.1.16 Card Formats and Block Details. Figures 1 and 2 illustrate the format and block details of the two types of cards authorized for PMRM's use. See figure 1 for format for prime and decimal cards, and figure 2 for format for preface and illustration cards. Block details are as follows:

- a. Card. The assigned card number. See 3.4 for details concerning card numbering (see figures 1 and 2, block 1).
- b. Pub and date. This block shall identify the manual's publication number assigned by the procuring activity. It shall also identify the basic issue or revision date of the manual directly under the publication number (see figures 1 and 2, block 2).
- c. Change No. This block shall indicate the number of the most recent change. The block is left blank on basic issue or revision cards (see figures 1 and 2, block 3).

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d. Inspection type/interval. This block shall be used to designate the inspection type or interval such as special 7-day, daily, postlaunch, phase, engine (see figure 1, block 4).

e. Elec pwr, hyd pwr, and conditioned air. These blocks shall indicate the requirements for electrical power, hydraulic power, and conditioned air. Requirements shall indicate ON when required to complete the tasks; OFF when application would be dangerous to personnel or damaging to the equipment; and NA (not applicable) when power is not required and its application would not be dangerous to personnel or damaging to the equipment. The status of electrical power, hydraulic power and conditioned air on decimal cards shall be consistent with the requirements indicated on the prime card (see figure 1, block 5).

f. Time. This block shall be used to indicate the total elapsed maintenance time (EMT) necessary to accomplish the requirements of the prime card and decimal card(s). Time to perform referenced requirements shall be included. EMT is expressed in hours and tenths of hours on the prime card only. The time required to obtain tools, equipment, parts or consumables, and time lost due to adverse working conditions or corrections of discrepancies shall not be included. If an assistant is required, his total time required shall be indicated in hours and tenths of hours in parenthesis in the upper right-hand corner following the assistant's rating as shown in figure 42 (see figure 1, block 6).

g. RTG and NO (rating and number). This block shall be used to assign the Navy rating which is responsible for the task in accordance with NAVPERS 18068. When a plane captain, flight engineer, or quality assurance inspector is required, they shall be identified as PC, FE, or QA in accordance with OPNAVINST 4790.2. In addition to the rate, a number shall be assigned to identify individuals within each of the rates required to complete the inspection. Note: The number assigned identifying individuals required to accomplish specific tasks does not relate to skill levels. These numbers are used for task sequencing and workload control purposes. For inspection utilizing sequence control cards(s), the rate and number assigned to the task card(s) shall correspond with those listed on the sequence control card(s) (see figures 37 and 38). The block shall remain blank if the task does not apply to Navy equipment (see figure 1, block 7).

h. MOS and NO (Military Occupational Specialty and Number). Marine Corps MOS numbers shall be assigned in this block in accordance with MCO P1200.7 to identify the general technical specialty responsible for accomplishing the task. When a plane captain, flight engineer, or quality assurance inspector is required, they shall be identified as PC, FE, or QA in accordance with OPNAVINST 4790.2. In addition to the MOS, a number shall be assigned to identify individuals within each of the occupational specialties required to complete the inspection. These numbers are used for task sequencing and workload control purposes. For inspections utilizing sequence control card(s), the MOS and number assigned on the task card(s) shall correspond with those listed on the sequence control card(s) (see figures 37 and 38). The block shall remain blank if the task does not apply to Marine Corps equipment (see figure 1, block 8).

i. Task. This block shall contain the descriptive title identifying the task(s) on the card. This block shall be left blank on daily cards (see figure 1, block 9).



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j. Work area/zone column. This column shall identify the work area or zone assigned from the work area or zone illustration. When an inspection requirement affects more than one work area or zone, all work areas or zones so affected shall be identified (see figure 1, block 10).

k. Corrosion inspection column. Entries shall be provided in this column in all manuals (except checklists and PMIC) to identify corrosion inspection requirements. These requirements shall be identified by the symbol "C" in this column (see figure 1, block 11).

l. Inspection requirements. This area shall provide the task description. Each task and its related steps shall be arranged in a logical sequence to ensure accurate and efficient accomplishment of the inspection requirement (see 3.3.26) (see figure 1, block 12).

m. Card title. This block shall provide the descriptive title of the preface, illustration, and PMIC manual cards (see figure 2, block 13).

n. Inspection information. This area shall provide preliminary maintenance information, illustrations, and PMIC manual information (see figure 2, block 14).

3.2 Types of Manuals. The ordering document provided by the procuring activity shall specify the types of PMRM's to be prepared in accordance with this specification. When preparing PMRM's to the provisions of this specification, the preparing activity shall comply with all applicable portions of the Naval Aviation Maintenance Program as expressed in OPNAVINST 4790.2. PMRM types shall be limited to those described in the following paragraphs (see 6.2.1).

### 3.2.1 Aircraft Weapon Systems PMRM's.

3.2.1.1 PMIC Manual (aircraft). The PMIC manual contains the introductory information relative to the aircraft's scheduled maintenance program. It includes a schedule for items having an approved mandatory removal/replacement interval or special tracking requirements; a list, by system and card number, of the inspection requirements to be performed; and conditional inspection requirements to be accomplished after the occurrence of certain overlimit situations. The PMIC manual may also identify inspections necessary to avoid under-inspection of critical systems during implementation of a revised phased PMRM.

3.2.1.1.1 Arrangement. The arrangement of the PMIC manual and the format of each card within it shall be presented as follows:

- a. Title Card (see 3.3.1).
- b. List of Effective Cards ("A" Card) (see 3.3.3).
- c. List of Technical Publications Deficiency Reports Incorporated Card (TPDR Card) (see 3.3.4).
- d. Introduction Card (see 3.3.6).
- e. Removal/Replacement Schedule and Special Tracking Requirements Card (see 3.3.10).

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- f. Inspection Requirements Index Cards (see 3.3.11).
- g. Conditional Inspection Listing Cards (see 3.3.12).
- h. Phase Change Implementation Card (see 3.3.13).

3.2.1.2 Turnaround Checklist. The turnaround checklist contains tasks consecutively numbered and sequentially arranged in a logical walkaround order. The requirements are those necessary to identify degradation that has occurred during flight. They consist of:

- a. Inspections for obvious defects and integrity of the aircraft exterior and interior. Installed external airborne equipment and special stores shall be considered as part of the aircraft; and
- b. Check and service fuel, oils, liquid oxygen, and other critical consumables expended during normal operation.

3.2.1.2.1 Arrangement. The overall arrangement of the turnaround checklist and the format of each page within it shall be presented as follows:

- a. Title/introduction/application page (see 3.3.5 and figure 8).
- b. Task pages (see 3.3.24).

3.2.1.3 Daily/Special/Preservation/Conditional/ASPA Manual. The overall arrangement of the manual shall be as follows:

a. Daily inspection. The daily inspection shall provide inspection requirements for defects at a greater depth than the turnaround checklist. The inspection shall be accomplished in a logical walkaround sequence (clockwise).

b. Special inspections. Requirements sensitive to the occurrence of a prescribed number of days, flight hours, operating hours, or cycles/events that are not compatible with phase inspection intervals shall appear on Special Inspection cards. For example 7, 14, or 21 days; 10, 35, or 75 hours; or 100 arrested landings. When assembling special cards, every effort shall be made to limit to eight hours EMT the time required to perform any special inspection or combination of special inspections which, because of their intervals, become due simultaneously. Only one inspection cycle may be indicated in block 4 (see figure 1). The following detailed requirements apply:

(1) Certain aviator's equipment/safety and survival systems that require ALSS PMRM's shall have only installation and removal requirements included in the Special cards.

(2) The corrosion inspection program for items that are predominantly calendar sensitive shall consist of special inspections based on a cumulative number of days. These requirements are to inspect corrosion-prone areas for degradation that may have occurred during the preceding inspection interval. Corrosion-prone area illustrations shall be provided where necessary for clarity. Corrosion inspection tasks shall be identified with the letter "C" in block 11 (see figure 1).



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(3) The inspection of equipment/components/structures within the engine bay area that are practical only with the engine removed shall be programmed as specials at the same interval as the scheduled engine removal. The applicable cards shall contain the following: "NOTE: To be performed when the QECA is removed for scheduled inspection."

(4) Engine removal/installation requirements (when required) shall be contained in the Special cards by reference to the applicable maintenance manual. For example: "remove engine in accordance with NAVAIR 01-XXX-X." These cards shall list the total time required, consumable maintenance materials, and replacement parts needed to accomplish the removal or installation of the engine.

(5) All engine, propeller and QEC maintenance requirements which are performed on the installed engine/QEC that do not have intervals compatible with those established in the phases shall be included as specials. All engine requirements included as special inspections shall be annotated in block 9 (see figure 1) with the word "engine" or "propeller", as applicable.

c. Preservation/depreservation requirements. Preservation requirements shall be provided for the short term (six months maximum) preservation of aircraft. (Preservation requirements for each aircraft system will be addressed individually and shall include initial preservation procedures, scheduled maintenance to be accomplished while each system is preserved, and depreservation procedures) (see 3.3.26c).

d. Conditional inspections. When applicable, Conditional inspections are those unscheduled inspections required to be accomplished because of the occurrence of a measurable abnormal operational event which exceeds the design limits of structural components or equipment and may compromise aircraft safety of flight. The exceeding of design limits should be determined at the time of occurrence by a predetermined measurement criteria (i.e., G's, pressure, temperature, RPM's, weight, speed, or torque). The occurrence of defects to components or equipment while operating within designed operating parameters are not considered candidates for conditional inspections. Precarrier/postcarrier inspection requirements are exceptions to these criteria and shall be listed as conditional inspections.

e. Aircraft Service Period Adjustment (ASPA) Requirements. When applicable, special inspection requirements shall be provided for preparation of the aircraft for ASPA evaluations and for restoration of the aircraft to a flight-ready condition upon completion of the inspection (see figures 47 and 48).

f. Zonal inspections. Zonal inspections shall be a requirement of the daily/special/preservation/conditional and phase PMRM's when the criteria of reliability centered maintenance (RCM) is met.

3.2.1.3.1 Arrangement. The arrangement of the daily/special/preservation/conditional ASPA manual and the format of each card within it shall be presented as follows:

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- a. Title Card (see 3.3.1).
- b. List of Effective Cards ("A" Card) (see 3.3.3).
- c. List of Technical Publications Deficiency Reports Incorporated Card (TPDR Card) (see 3.3.4).
- d. Introduction and Application Statement Card (see 3.3.7.1).
- e. Definition Card (see 3.3.9).
- f. Abbreviation and Index Cards (see 3.3.14).
- g. Special Tools/Support Equipment List Cards (see 3.3.16).
- h. Consumable Maintenance Material List Cards (see 3.3.17).
- i. Replacement Parts List Cards (see 3.3.18).
- j. Work Area Cards or Zone Cards (see 3.3.19).
- k. Zone Title and Description Cards (see 3.3.20).
- l. Zonal Inspection Criteria Card (see 3.3.21).
- m. Access Panel Cards (see 3.3.22).
- n. Antenna Location Cards (see 3.3.23).
- o. Task Cards (see 3.3.26).
  - (1) Daily
  - (2) Special (day)
  - (3) Special (hour)
  - (4) Special (event)
  - (5) Preservation
  - (6) Depreservation
  - (7) Conditional (as required)
  - (8) Aircraft Service Period Adjustment (ASPA) Cards (see 3.2.1.3e).
- p. Illustration Cards (see 3.3.27).
- q. QA Cards (see 3.3.31).

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**3.2.1.4 Phased Maintenance Requirements Manual.** The phase requirements are formulated by dividing the total applicable scheduled inspection requirements into phases which are performed at specified intervals and have approximately the same work content and EMT. This includes all QEC, propeller and engine requirements which are performed on the installed QECA. All QEC, propeller and engine requirements shall be identified in block 9 (figure 1) with the word "Engine" or "Propeller" followed by the interval of the inspection. The number of phases is established after the scope of the total workload has been identified by maintenance engineering analysis. Through application of this concept, a portion of the total recurring inspection requirements is accomplished at each phase and the cycle will be repeated after completion of the last phase.

**3.2.1.4.1 Phase Flight-Hour Inspections.** If the majority of the scheduled maintenance requirements specified for a phase inspection cycle are flight-hour sensitive, the requirements shall be divided into phases based on flight hours.

**3.2.1.4.2 Phase Calendar Inspections.** If the majority of the scheduled maintenance requirements specified for a phase inspection cycle are calendar sensitive, the requirements shall be divided into phases based on calendar time.

**3.2.1.4.3 Phase Inspection Interval.** Each phase will be accomplished at equal flight-hour or calendar intervals. Scheduled flight-hour and calendar requirements shall not be intermixed in the same phase manual. Requirements not compatible with the phase interval shall be accomplished as Special inspections.

**3.2.1.4.4 Phase Inspection Structure.** The following guidelines shall be followed in structuring each phase:

- a. The amount of work to be accomplished by an inspection team should be limited to eight hours or less of EMT.
- b. When practical, divide each phase into approximately equal workloads.
- c. Limit repetition of preparation requirements by giving special attention to equipment removal, access openings, use of support equipment (SE), engine operation, and checkflight requirements.
- d. Within time limitations, group requirements that are functionally related in the same phase.
- e. Group requirements so that they are compatible with the environment in which they shall be performed. i.e., tasks requiring the aircraft to be on jacks should be put in the same phase.
- f. When feasible, group requirements to be accomplished using external power sources.

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3.2.1.4.5 Arrangement. The arrangement of the phased maintenance requirement manual and the format of each card within it shall be presented as follows:

- a. Title Card (see 3.3.1).
- b. List of Effective Cards ("A" Card) (see 3.3.3).
- c. List of Technical Publications Deficiency Reports Incorporated Card (TPDR Card) (see 3.3.4).
- d. Introduction and Application Statement Card (see 3.3.7.2).
- e. Definitions Card (see 3.3.9).
- f. Abbreviations, Index, and Checkflight Requirements Cards (see 3.3.15).
- g. Special Tools/Support Equipment List Cards (see 3.3.16).
- h. Consumable Maintenance Material List Cards (see 3.3.17).
- i. Replacement Parts List Cards (see 3.3.18).
- j. Work Area Cards or Zone Cards (see 3.3.19).
- k. Zone Title and Description Cards (see 3.3.20).
- l. Zonal Inspection Criteria Card (see 3.3.21).
- m. Access Panel Cards (see 3.3.22).
- n. Antenna Location Cards (see 3.3.23).
- o. Phase Packages:
  - (1) Phase Cover Card (see 3.3.2).
  - (2) Sequence Control Cards (see 3.3.25.1).
  - (3) Task Cards (see 3.3.26).
  - (4) Illustration Cards (see 3.3.27).
  - (5) QA Cards (see 3.3.31),

3.2.2 QECA Manual.

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3.2.2.1 QECA Periodic Maintenance Requirements Manual. This manual shall contain all scheduled engine inspection requirements necessary to zero time the engine for inspection purposes. This includes requirements on the engine, Quick Engine Change Kit (QECK), Contractor Furnished Equipment (CFE), and Government Furnished Equipment (GFE) and propellers, if applicable, for all aircraft models which utilize the particular engine model. For multi-engined aircraft, the requirements applicable to a particular engine position are noted on the applicable MRC. Conditional inspections and Zonal inspections shall not be a requirement of the QECA manual. As referenced in this specification, the terms QEC, QECA, and QECK are defined as follows:

a. QEC (Quick Engine Change). Requirements peculiar to a specific airframe for QECK items, GFE, and CFE accessories and for propellers when applicable.

b. QECA (Quick Engine Change Assembly). A quick engine change kit completely assembled on a quick engine change stand with the engine and all GFE and CFE accessories installed, less the propeller.

c. QECK (Quick Engine Change Kit). A kit containing all items required for a QECA less GFE and CFE accessories, engine, and propeller.

3.2.2.1.1 Arrangement. The arrangement of the QECA manual and the format of each card within it shall be presented as follows:

a. Title Card (see 3.3.1).

b. List of Effective Cards ("A" Card) (see 3.3.3).

c. List of Technical Publications Deficiency Reports Incorporated Card (TPDR Card) (see 3.3.4).

d. Introduction and Application Statement Card (see 3.3.7.3).

e. Definitions Card (see 3.3.9).

f. Abbreviations and Index Cards (see 3.3.14).

g. Special Tools/Support Equipment List Cards (see 3.3.16).

h. Consumable Maintenance Material List Cards (see 3.3.17).

i. Replacement Parts List Cards (see 3.3.18).

j. Work Area Cards or Zone Cards (see 3.3.19).

k. Sequence Control Cards (see 3.3.25.2).

l. Engine Task Cards (see 3.3.26).

m. Illustration Cards (see 3.3.27).

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- n. Engine QA Cards (see 3.3.31).
- o. QEC Cover Card (figure 5). The cover card shall not be numbered; it shall be printed on one side only and shall contain the technical manual number and QEC identifying information.
- p. QEC Task Cards (see 3.3.26).
- q. Illustration Cards (see 3.3.27).
- r. QEC QA Cards (see 3.3.31).

### 3.2.3 Airborne Armament Equipment or Special Stores PMRM's.

3.2.3.1 PMIC Manual (AAE/Special Stores) The PMIC manual contains the introductory information relative to the airborne armament equipment and special stores scheduled maintenance program. It includes a schedule for items having an approved mandatory removal/replacement interval and a list, by system and card number, of the inspection requirements to be performed.

3.2.3.1.1 Arrangement. The arrangement of the PMIC manual and the format of each card within it shall be presented as follows:

- a. Title Card (see 3.3.1).
- b. List of Effective Cards ("A" Card) (see 3.3.3).
- c. List of Technical Publications Deficiency Reports Incorporated Card (TPDR Card) (see 3.3.4).
- d. Introduction Card (see 3.3.5).
- e. Removal/Replacement Scheduled and Special Tracking Requirements Cards (see 3.3.10).
- f. Inspection Requirements Index Cards (see 3.3.11).

3.2.3.2 Daily/Special Manual (AAE/Special Stores). This manual shall contain all scheduled maintenance requirements for airborne equipment or special stores that are not normally separated from the aircraft during flight. Items such as gun pods, multiple ejector racks/triple ejector racks, in-flight refueling stores, and electronic counter-measure pods fall into this category. The scheduled maintenance requirements are arranged in a logical sequence to ensure a thorough inspection of the equipment. The manual contains the following:

- a. Daily inspection. The daily inspection will provide inspection requirements for uninstalled airborne armament equipment or special stores. The inspection shall be accomplished in a logical walkaround sequence. Inspections performed on installed airborne armament equipment or special stores shall be addressed in the applicable aircraft manual.

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b. Special inspection. Special inspection requirements are tasks on installed or uninstalled airborne armament equipment or special stores which do not fit in the turnaround or daily requirements.

c. Operational checks. Justified operational checks shall not be included in this manual but shall be included in the appropriate aircraft manual.

d. Zonal inspection. Zonal inspections shall be a requirement of the daily/special PMRM when the criterion of reliability centered maintenance (RCM) is met.

3.2.3.2.1 Arrangement. The arrangement of the daily/special manual and the format of each card within it shall be presented as follows:

a. Title Card (see 3.3.1).

b. List of Effective Cards ("A" Card) (see 3.3.3).

c. List of Technical Publications Deficiency Reports Incorporated Card (TPDR Card) (see 3.3.4).

d. Introduction and Application Statement Card (see 3.3.7.4).

e. Definitions Card (see 3.3.9)

f. Abbreviations and Index Cards (see 3.3.14).

g. Special Tools/Support Equipment List Cards (see 3.3.16).

h. Consumable Maintenance Material List Cards (see 3.3.17).

i. Replacement Parts List Cards (see 3.3.18).

j. Work Area Cards or Zone Cards (see 3.3.19).

k. Task Cards (see 3.3.26).

(1) Daily

(2) Special (day)

(3) Special (hour)

(4) Special (event)

l. Illustration Cards (see 3.3.27).

m. QA Cards (see 3.3.31).

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**3.2.4 SE/ATE PMRM's.**

**3.2.4.1 Preoperational Checklist (SE).** This checklist contains the inspection requirements necessary to identify defects that have occurred between or during SE use. They consist of examinations of the equipment exterior and interior surfaces, required servicing, and functional checks, as required. The cards and tasks are arranged in the most logical order for performing the required tasks. SE preoperational requirements shall be accomplished prior to each use or prior to the first use of the day, dependent upon the interval selected. Preoperational checklists shall not be developed for automatic test equipment (ATE). ATE, as distinguished from SE, are those units which, being permanently situated at intermediate level maintenance activities, carry out predetermined programs of testing.

**3.2.4.1.1 Arrangement.** The arrangement of the preoperational checklist and the format of each page within it shall be presented as follows:

- a. Title/introduction/application page (see 3.3.5.2).
- b. Task pages (see 3.3.24).

**3.2.4.2 Calendar/Hour/Start/Special/Preservation/Conditional Manual (SE) and (ATE).** These manuals contain the scheduled maintenance requirements necessary to maintain SE and ATE. This includes lubrication and servicing and inspection for degradation/corrosion. These manuals shall contain requirements to ensure a thorough and searching examination of the equipment in both the static and functional states. They shall clearly establish inspection procedures that will detect material degradation that may have occurred during the preceding inspection interval. Clearances, pressures, tolerances, illustrations, support equipment required, and manual references are presented where pertinent. Periodicity shall be established in increments of weeks, hours, starts, or cycles, as applicable. When functional checks of the equipment are required, only the applicable maintenance manual(s) shall be referenced. Each inspection will be accomplished at equal hour or calendar intervals. Requirements not compatible with the established interval shall be accomplished as Special inspections. The overall arrangement of the manual shall be as follows:

- a. Calendar/hour/start inspections. The following detailed requirements apply:

(1) **Calendar Inspections.** If the majority of the scheduled maintenance requirements specified for an inspection cycle are calendar sensitive, the requirements shall be based on calendar time.

(2) **Hour Inspections.** If the majority of the scheduled maintenance requirements specified for an inspection cycle are hour sensitive, the requirements shall be based on hours.

(3) **Start Inspections.** If the majority of the scheduled maintenance requirements specified for an inspection cycle are start sensitive, the requirements shall be based on starts.



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b. Special inspections. Requirements sensitive to the occurrence of a prescribed number of days, operating hours, or cycles that are not compatible with inspection intervals shall appear on Special Inspection cards. For example 7, 14, or 21 days; 10, 35, or 75 hours. When assembling special cards, every effort shall be made to limit to eight hours EMT the time required to perform any special inspection or combination of special inspections which, because of their intervals, become simultaneously. Only one inspection cycle may be indicated in block 4 (see figure 1). The following detailed requirements apply:

(1) The corrosion inspection program for items that are predominantly calendar sensitive shall consist of special inspections based on a cumulative number of days. These requirements are to inspect corrosion-prone areas for degradation that may have occurred during the preceding inspection interval. Corrosion-prone area illustrations shall be provided where necessary for clarity. Corrosion inspection tasks shall be identified by the letter "C" in block 11 (see figure 1).

(2) The inspection of equipment/components/structures within the engine bay area that are practical only with the engine removed shall be programed as specials at the same interval as the scheduled engine removal. The applicable cards shall contain the following: "NOTE" To be performed when the QECA is removed for scheduled inspection."

(3) Engine removal/installation requirements (when required) shall be contained in the Special cards by reference to the applicable maintenance manual. For example: "remove engine in accordance with NAVAIR 19-XX-XX." These cards shall list the total time required, consumable maintenance materials, and replacement parts needed to accomplish the removal or installation of the engine.

c. Preservation/Depreservation requirements. Preservation requirements shall be provided for short term (six months maximum) preservation. (Preservation requirements shall include initial preservation procedures, scheduled maintenance to be accomplished while the SE or ATE is preserved, and depreservation procedures) (see 3.3.26c).

d. Conditional inspections. Conditional inspections are those unscheduled inspections required to be accomplished because of the occurrence of a measurable abnormal operational event which exceeds the design limits of structural components or equipment and may compromise safety. The exceeding of design limits should be determined at the time of occurrence by a predetermined measurement criteria (i.e., pressure, temperature, RPM's, weight, speed, or torque). The occurrence of defects to components or equipment while operating within designed operating parameters are not considered candidates for conditional inspections. Precarrier inspection requirements are exceptions to these criteria and shall be listed as conditional inspections.

3.2.4.2.1 Arrangement. The arrangement of the SE/ATE calendar/hour/start/special/preservation/conditional manual and the format of each card within it shall be presented as follows:

- a. Title Card (see 3.3.1).
- b. List of Effective Cards ("A" Card) (see 3.3.3).

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c. List of Technical Publications Deficiency Reports Incorporated Card (TPDR Card) (see 3.3.4).

d. Introduction and Application Statements Cards (see 3.3.7.5).

e. Definitions Card (see 3.3.9).

f. Abbreviation and Index Cards (see 3.3.14).

g. Special Tools/Support Equipment List Cards (see 3.3.16).

h. Consumable Maintenance Material List Cards (see 3.3.17).

i. Replacement Parts List Cards (see 3.3.18).

j. Work Area Cards (see 3.3.19).

k. Access Panel Cards (see 3.3.22).

l. Task Cards (see 3.3.26).

(1) Calendar/Hour/Start

(2) Special (day)

(3) Special (hour)

(4) Special (starts)

(5) Preservation

(6) Depreservation

(7) Conditional (as required)

m. Illustration Cards (see 3.3.27).

n. QA Cards (see 3.3.31).

## 3.2.5 Powered Aerial Target (Missile) PMRM's.

3.2.5.1 Acceptance/Initial Buildup Manual. This manual contains the acceptance inspections, buildup procedures, and testing and servicing requirements for newly issued targets. The cards in this manual are arranged in groups according to the rating or MOS required to perform the tasks.

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3.2.5.1.1 Arrangement. The arrangement of the acceptance/initial buildup manual and the format of each card within it shall be presented as follows:

- a. Title Card (see 3.3.1).
- b. List of Effective Cards ("A" Card) (see 3.3.3).
- c. List of Technical Publications Deficiency Reports Incorporated Card (TPDR Card) (see 3.3.4).
- d. Introduction and Application Statements Cards (see 3.3.7.6).
- e. Definitions Card (see 3.3.9).
- f. Abbreviation and Index Cards (see 3.3.14).
- g. Special Tools/Support Equipment List Cards (see 3.3.16).
- h. Consumable Maintenance Material List Cards (see 3.3.17).
- i. Replacement Parts List Cards (see 3.3.18).
- j. Work Area Cards or Zone Cards (see 3.3.19).
- k. Access Panel Cards (see 3.3.22).
- l. Antenna Location Cards (see 3.3.23).
- m. Task Cards (see 3.3.26).
  - (1) Buildup.
  - (2) Servicing.
  - (3) Testing.
- n. Illustration Cards (see 3.3.27).
- o. QA Cards (see 3.3.31).

3.2.5.2 Prelaunch Manual. This manual contains the prelaunch requirements to inspect the target for defects, to verify servicing, and to ready it for launch. The cards and tasks in this manual are arranged in the most logical order for performing the required tasks. Prelaunch requirements shall be accomplished immediately prior to each use of the target.

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3.2.5.2.1 Arrangement. The arrangement of the prelaunch manual and the format of each card within it shall be presented as follows:

- a. Title Card (see 3.3.1).
- b. List of Effective Cards ("A" Card) (see 3.3.3).
- c. List of Technical Publications Deficiency Reports Incorporated Card (TPDR Card) (see 3.3.4).
- d. Introduction and Application Statements Cards (see 3.3.7.7).
- e. Definitions Card (see 3.3.9).
- f. Abbreviation and Index Cards (see 3.3.14).
- g. Special Tools/Support Equipment List Cards (see 3.3.16).
- h. Work Area Cards or Zone Cards (see 3.3.19).
- i. Access Panel Cards (see 3.3.22).
- j. Antenna Location Cards (see 3.3.23).
- k. Task Cards (see 3.3.26).
- l. Illustration Cards (see 3.3.27).
- m. QA Cards (see 3.3.31).

3.2.5.3 Postlaunch/Servicing Manual. This manual contains the postlaunch maintenance and servicing requirements for the target. These requirements include procedures for decontamination, disassembly and buildup, inspection for degradation, and system servicing.

3.2.5.3.1 Arrangement. The arrangement of the postlaunch/servicing manual and the format of each card within it shall be presented as follows:

- a. Title Card (see 3.3.1).
- b. List of Effective Cards ("A" Card) (see 3.3.3).
- c. List of Technical Publications Deficiency Reports Incorporated Card (TPDR Card) (see 3.3.4).
- d. Introduction and Application Statements Cards (see 3.3.7.8).
- e. Definitions Card (see 3.3.9).

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- f. Abbreviation and Index Cards (see 3.3.14).
- g. Special Tools/Support Equipment List Cards (see 3.3.16).
- h. Consumable Maintenance Material List Cards (see 3.3.17).
- i. Replacement Parts List Cards (see 3.3.18).
- j. Work Area Cards or Zone Cards (see 3.3.19).
- k. Access Panel Cards (see 3.3.22).
- l. Antenna Location Cards (see 3.3.23).
- m. Task Cards (see 3.3.26).
  - (1) Decontamination.
  - (2) Disassembly.
  - (3) Rehabilitation.
  - (4) Assembly.
  - (5) Servicing.
- n. Illustration Cards (see 3.3.27).
- o. QA Cards (see 3.3.31).

3.2.6 Powered Surface Target PMRM's.

3.2.6.1 Preoperational Checklist. This checklist contains the inspection requirements arranged in the most logical order for performing the required tasks. Preoperation requirements shall be accomplished prior to each use of the target.

3.2.6.1.1 Arrangement. The arrangement of the checklist and the format of each page within it shall be presented as follows:

- a. Title/introduction/application page (see 3.3 and 3.3.5.2).
- b. Task pages (see 3.3.24).

3.2.6.2 Periodic Maintenance Manual. This manual contains the scheduled maintenance requirements necessary to maintain powered surface targets. This includes lubrication and servicing and inspection for degradation.

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3.2.6.2.1 Arrangement. The arrangement of the powered surface target periodic maintenance manual and the format of each card within it shall be presented as follows:

- a. Title Card (see 3.3.1).
- b. List of Effective Cards ("A" Card) (see 3.3.3).
- c. List of Technical Publications Deficiency Reports Incorporated Card (TPDR Card) (see 3.3.4).
- d. Introduction and Application Statements Cards (see 3.3.7.9).
- e. Definitions Card (see 3.3.9).
- f. Abbreviation and Index Cards (see 3.3.14).
- g. Special Tools/Support Equipment List Cards (see 3.3.16).
- h. Consumable Maintenance Material List Cards (see 3.3.17).
- i. Replacement Parts List Cards (see 3.3.18).
- j. Work Area Cards or Zone Cards (see 3.3.19).
- k. Access Panel Cards (see 3.3.22).
- l. Antenna Location Cards (see 3.3.23).
- m. Task Cards (see 3.3.26).
  - (1) Days.
  - (2) Hours.
  - (3) Events.
- n. Illustration Cards (see 3.3.27).
- o. QA Cards (see 3.3.31).

### 3.2.7 ALSS PMRM's.

3.2.7.1 Periodic Maintenance Manual. This manual contains the requirements necessary to inspect ALSS for degradation that has occurred since the previous inspection. Each ALSS periodic maintenance manual shall address specific equipment within the scope of a given category of equipment. For example, the manual titled, EMERGENCY PERSONAL PARACHUTES AND DROGUE SYSTEMS shall address the NES-12, A/P-28S-24, etc. The manual titled, SEAT SURVIVAL KITS shall address the SKU-2/A, SKU-3/A, etc.

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3.2.7.1.1 Arrangement. The arrangement of the ALSS periodic maintenance manual and the format of each card within it shall be presented as follows:

- a. Title Card (see 3.3.1).
- b. List of Effective Cards ("A" Card) (see 3.3.3).
- c. List of Technical Publications Deficiency Reports Incorporated Card (TPDR Card) (see 3.3.4).
- d. Introduction and Application Statements Cards (see 3.3.8).
- e. Definitions Card (see 3.3.9).
- f. Abbreviation and Index Cards (see 3.3.14).
- g. Special Tools/Support Equipment List Cards (see 3.3.16).
- h. Consumable Maintenance Material List Cards (see 3.3.17).
- i. Replacement Parts List Cards (see 3.3.18).
- j. Task Cards (see 3.3.26).
  - (1) Days.
  - (2) Hours.
- k. Illustration Cards (see 3.3.27).
- l. QA Cards (see 3.3.31).

3.3 Card Formats. Card formats shall be limited to those described in the following paragraphs. The appropriate subparagraphs under 3.2 identify the card formats which are authorized for use in each type PMRM.

3.3.1 Title Card.

3.3.1.1 Title Card Format Details (see figures 3 and 4).

a. The publication number assigned by the requiring activity shall be placed in the upper right corner of the card. A 5/8-inch space measured from the top edge of the card down to the top of the lettering shall be established to allow for drilling holes. Type size shall be 14 point.

b. The words "TECHNICAL MANUAL" shall be centered in the upper portion of the card as illustrated. Type size shall be 14 point.

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c. The publication title, such as DAILY/SPECIAL/PRESERVATION/CONDITIONAL/ASPA, PHASED MAINTENANCE REQUIREMENTS, or other titles, as identified in this specification, shall be centered on the card below the words TECHNICAL MANUAL. Type size shall be 14 point.

d. The type or model and the nomenclature of the weapon system, equipment or SE, or the category of ALSS covered by the manual shall be centered on the card below the title. Type size shall be 14 point.

e. The manufacturer's name shall be centered below the model and nomenclature on publications applicable to support equipment, surface or aerial targets, and airborne armament equipment or special stores. Type size shall be 14 point.

f. The type equipment code shall be centered below the manufacturer's name on publications applicable to support equipment, surface or aerial targets, and airborne armament equipment or special stores. Type size shall be 14 point.

g. A notice that an interim rapid action change (IRAC) has been incorporated, if applicable, shall be centered below the nomenclature or type equipment code. Type size shall be 9 point (see figure 3).

h. A supersedure notice shall be positioned below the nomenclature or type equipment code as applicable. This notice shall be used only on revised manuals. The notice shall include the superseded publication number and its date plus all previously incorporated rapid action change numbers. For example; "This manual supersedes NAVAIR 17-600-117-6-2 dated 1 March 1980 through Change 2 dated 11 April 1981 including previously incorporated RAC's 1 through 8." (see figures 4 and 8). The notice shall be deleted upon incorporation of the first change to the revised manual. Type size shall be 9 point.

i. The distribution statement and distribution notice shall be presented verbatim on all title cards as follows:

DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractor.s to protect publications required for official use or for administrative or operational purposes only, (determination date). Other requests for this document shall be referred to Commanding Office, Naval Air Technical Services Facility, 700 Robbins Avenue, Philadelphia, PA 19111-5097.

The determination date shall be the date of the publication (basic, revision, change date, as applicable) when the distribution statement is applied. If the distribution statement is changed, the determination date will be the date of the issue that effected the change.

The destruction notice shall be placed directly below the distribution statement and shall read as follows:

DESTRUCTION NOTICE. For unclassified, limited documents, destroy by any method that will prevent disclosure of contents or reconstruction of the document.



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Type size shall be not greater than 10 point nor less than 6 point.

j. The publishing approval authority statement shall be presented verbatim in capital letters as follows:

PUBLISHED BY DIRECTION OF THE COMMANDER, NAVAL AIR SYSTEMS COMMAND

Type size shall be 9 point.

k. The publication issue or revision date shall be placed in the lower right corner. The right margin shall be aligned with that of the publication number. Type size shall be 14 point. The publication date shall be the copy freeze date (see 6.3.3).

l. The change number and date, when applicable, shall be positioned below and aligned with the right margin of the issue or revision date. When the change is a formal RAC, the RAC number shall be included (see figure 4). Type size shall be 9 point.

m. The stock number for the manual, assigned by the requiring activity, shall be placed in the lower left corner, opposite the publication date (see figures 3 and 4). Type size shall be not greater than 14 point or less than 6 point.

3.3.1.2 Aircraft QECA or ALSS Title Card (see figure 3).

- a. Publication number.
- b. Manual title.
- c. Type/model of the aircraft, QECA, or category of the ALSS covered by the manual.
- d. Supersedure notice (when applicable).
- e. Distribution statement.
- f. Activity with publishing approval authority.
- g. Issue date.
- h. RAC or change number and date (when applicable).
- i. Assigned stock number.

3.3.1.3 Armament/Special Stores, SE, or Target (surface or aerial) Title Card (see figure 4).

- a. Publication number.
- b. Manual title.
- c. Nomenclature of the equipment/stores covered by the manual.

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- d. Manufacturer's name.
- e. Type equipment code.
- f. Supersedure notice (when applicable).
- g. Distribution statement.
- h. Activity with publishing approval authority.
- i. Issue date.
- j. RAC or change number and date (when applicable).
- k. Assigned stock number.

### 3.3.2 Phase Cover Card (see figure 5).

- a. The publication number assigned by the requiring activity shall be placed in the upper right corner of the card. A 5/8-inch space measured from the top edge of the card down to the top of the lettering shall be established to allow for drilling holes. Type size shall be 14 point.
- b. The phase identification shall be centered on the card as illustrated in figure 5. Type size shall be 14 point.

### 3.3.3 List of Effective Cards ("A" Card) (see figure 6).

A list of effective cards shall be prepared. This card shall back up the title card and shall be identified with the letter "A" in the lower left hand corner. When additional space is required, "B", "C", etc. cards shall be added. The list of effective cards shall be a complete list of all cards, including the title card, "A" card, blank cards, deleted cards and added cards. The words "added", "deleted", or "blank" shall be placed along side of the cards so affected. Appropriate change numbers, including Rapid Action Change (RAC) numbers shall be shown in the "Change No." column. A list of current changes to the manual, including the basic issue or revision shall be identified by the word "Original" and the numeral "0", shall be listed. The list of current changes shall include the numbers and dates of all Rapid Action Changes (RAC's) incorporated since the basic manual or its latest revision. The "A" card shall contain a statement confirming the total number of card faces in the manual.

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3.3.4 List of Technical Publications Deficiency Reports Incorporated Card (TPDR Card) (see figure 7). A list of Technical Publications Deficiency Reports Incorporated Card shall be prepared for all changed/revised Periodic Maintenance Requirements Manuals with the exception of 3 1/2" x 5 1/2" checklists and 5" x 8" single card checklists. The list shall reflect the data incorporated in the manual resulting from valid Technical Publications Deficiency Reports (TPDR). A double column format shall be used. Column headings shall be "Identification No./QA Sequence No." and "Location." The identification number shall indicate the reporting activity and its TPDR file number assigned by the Naval Air Technical Services Facility. Under the column heading "Location" the card number(s) shall be indicated as appropriate, identifying the location in the manual where the data has been incorporated. The list shall reflect the data that has been incorporated in that particular issue. The list shall not be cumulative. The card(s) shall follow the List of Effective Cards ("A" Card) and be numbered TPDR-1, TPDR-2, etc.

3.3.5 Checklist Title/Introduction and Application Pages (see figure 8). The introduction and application/statements shall be integrated on the title pages of the following checklists. The statements shall be presented verbatim as prescribed herein for each of the respective checklists. When hazardous materials are referenced in the manual, the statement in 3.1.7.1 shall be included. The format shall conform to that illustrated in figure 8 and shall contain the following information in 9 point type:

- a. Publication number.
- b. Manual type (e.g. TURNAROUND CHECKLIST; PREOPERATIONAL CHECKLIST).
- c. Type/model of the aircraft/equipment covered by the checklist.
- d. Supersedure statement. When a manual is revised, a supersedure notice shall be positioned below the nomenclature. This notice shall include the superseded publication number and its date plus all previously incorporated RAC numbers.
- e. Abbreviated distribution statement and destruction notice. This statement shall be expressed verbatim as follows:

DISTRIBUTION STATEMENT C. Distribution authorized to U. S. Government agencies and their contractors (determination date).

DESTRUCTION NOTICE. Destroy by any method that will prevent disclosure of contents or reconstruction of the document.

- f. The publishing approval authority statement shall be expressed verbatim in capital letters as follows:

PUBLISHED BY DIRECTION OF COMMANDER, NAVAL AIR SYSTEMS COMMAND

- g. Introduction statement.
- h. Application statement.

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- i. Issue date (shall appear in lower right corner of first page).
- j. The stock number assigned by the requiring activity shall be placed in the lower left hand corner of the first page, opposite the issue date.

3.3.5.1 Aircraft Turnaround Checklist (introduction and application statements) (see figure 8). The introduction and application statements shall be verbatim as expressed below. When hazardous materials are referenced in the manual, the statement in 3.1.7.1 shall be included after the introduction.

## INTRODUCTION

This checklist contains abbreviated inspection requirements necessary to ensure the integrity of the aircraft for flight and to determine the need for servicing. Time required to perform these tasks is approximately (insert number) hours EMT.

## APPLICATION

Turnaround maintenance requirements shall be accomplished between flights and are valid for the period established in OPNAVINST 4790.2. The accomplishment of the Daily Inspection prior to flight does not satisfy the requirements of the Turnaround Inspection.

3.3.5.2 SE or Powered Surface Target Preoperational Checklists (introduction and application statements). The statements shall be presented verbatim as introduction and application expressed below. When hazardous materials are referenced in the manual the statement in 3.1.7.1 shall be included after the introduction.

## INTRODUCTION

This checklist contains inspection requirements necessary to ensure the integrity of the equipment for operation and to determine the need for servicing. Time required to perform these tasks is approximately (insert number) hours EMT.

## APPLICATION

Preoperational checklist maintenance requirements shall be accomplished (prior to each use or prior to the first use of the day).

3.3.6 Introduction Card for PMIC Manual (see figure 9).

- a. The introduction statement contains the purpose, scope, and arrangement of the PMIC's manual. The format shall conform to that illustrated in figure 9.
- b. The introduction statement shall be verbatim as expressed below:

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## INTRODUCTION

This manual contains introductory information necessary to ensure proper maintenance of the weapon system. It includes all items having an approved mandatory removal/replacement interval and those items requiring Scheduled Removal Component cards as required by OPNAVINST 4790.2; the Inspection Requirements Index which lists, by system and card number, those requirements to be performed; and the Conditional Inspection Listing for those requirements that shall be accomplished after the occurrence of an over limit situation.

The Conditional Inspection requirements include a brief description of what is to be performed and a reference to the manual or directive containing detailed requirements.

The Phase Change Implementation Card, if included, identifies additional inspection requirements made necessary by manual update.

In instances where conflict exists between the requirements contained in this manual and other maintenance directives bearing prior dates, this manual shall take precedence.

### 3.3.7 Introduction and Application Statements Card for Maintenance Requirements Manuals (see figure 10).

a. The introduction statement contains the purpose, scope, and arrangement of the manual.

b. The application statement contains inspection interval applicability information.

c. Each of the following PMRM types shall have an introduction and application statement. The statements shall be presented verbatim as prescribed herein for each of the respective manuals. The format shall conform to that illustrated in figure 10.

3.3.7.1 Aircraft Daily/Special/Preservation/Conditional/ASPA Manual (introduction and application statements). The introduction and application statements shall be verbatim as expressed below. When hazardous materials are referenced in the manual, the statement in 3.1.7.1 shall be included.

## INTRODUCTION

This manual contains the minimum Daily/Special/Preservation/Conditional and ASPA requirements necessary to ensure the aircraft is safe for flight. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. These requirements are grouped in the following order:

Daily requirements — include inspections for defects and system degradation at a greater depth than the Turnaround Checklist.

Special requirements—are developed from tasks which do not fit in the phased package due to conflicting interval requirements. Inspections performed during Turnaround or Daily inspections shall not be duplicated by Special Inspections.

Preservation requirements—provide short term preservation procedures, maintenance while preserved and depreservation procedures.

Conditional requirements— are presented in this manual when detailed requirements do not exist in an appropriate technical manual.

ASPA requirements— provide special inspection requirements for preparation of the aircraft for ASPA evaluation and for restoration to a flight ready condition.

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## APPLICATION

Daily requirements are valid for the period established by OPNAVINST 4790.2. The accomplishment of these requirements prior to flight shall not satisfy the requirements of a Turnaround inspection. Special Preservation, Conditional and ASPA requirements shall be accomplished at the interval or condition specified on the card.

Type (D) Short Term Preservation shall be applied when the aircraft has been idle/nonflyable in excess of ( ) days and is valid for up to 180 days.

3.3.7.2 Calendar or Phased Maintenance Requirements Manuals (introduction and application statements). The appropriate set of introduction, application and hazardous materials statements shall be selected and copied verbatim as expressed below:

## INTRODUCTION

This manual contains the minimum calendar maintenance requirements to inspect the aircraft for degradation and to perform essential preventive maintenance. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. The cards are arranged in groups according to the rating/MOS required to perform the tasks. A sequence control card(s) shall be used to program the accomplishment of the requirements in the proper sequence. These requirements provide (insert number) balanced inspection intervals which constitute a (insert number) day calendar inspection cycle.

## APPLICATION

The maintenance requirements of each calendar inspection shall be accomplished at the expiration of (insert number) days following the completion of the prior calendar inspection. The calendar inspection cycle is repetitive for the service life of the aircraft.

or

## INTRODUCTION

This manual contains the minimum phased maintenance requirements to inspect the aircraft for degradation and to perform essential preventive maintenance. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. The cards are arranged in groups according to the rating/MOS required to perform the tasks. A sequence control card(s) shall be used to program the accomplishment of the requirements in the proper sequence. These requirements provide (insert number) balanced inspection intervals which constitute a (insert number) flight hour phased maintenance cycle.

## APPLICATION

The maintenance requirements of each phase interval inspection shall be accomplished at the expiration of (insert number) flight hours following the completion of the prior phase interval inspection. The phased maintenance cycle is repetitive for the service life of the aircraft.

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3.3.7.3 QECA Maintenance Requirements Manual (introduction and application statement). The introduction statement, and the appropriate application statement shall be presented verbatim as expressed below. When hazardous materials are referenced in the manual, the statement in 3.1.7.1 shall be included.

## INTRODUCTION

This manual contains the minimum scheduled maintenance requirements to inspect the QECA for degradation and to perform essential preventive maintenance. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. It includes all aircraft applications of the particular engine model. The cards in this manual are arranged in groups beginning with the engine requirements followed by separate QECA sections for each aircraft application. A sequence control card(s) shall be used to program the accomplishment of the requirements in the proper sequence.

## APPLICATION

The QECA maintenance requirements shall be accomplished at the interval of (insert number) hours for the (insert applicable engine type/model). These requirements shall also be accomplished as required by OPNAVINST 4790.2 when an engine is inducted into the Intermediate Maintenance Activity for repair.

or  
APPLICATION

The QECA maintenance requirements shall be accomplished as required by OPNAVINST 4790.2 whenever an engine is inducted into the intermediate maintenance activity for repair.

3.3.7.4 Airborne Armament Equipment or Special Stores Daily/Special Manual (introduction and application statements). The introduction and application statement shall be presented verbatim as expressed below. When hazardous materials are referenced in the manual, the statement in 3.1.7.1 shall be included.

## INTRODUCTION

This manual contains the minimum scheduled maintenance requirements for airborne armament equipment or special stores. The periodic maintenance requirements consist of daily and special inspections. The daily requirements include inspection for degradation that has occurred since the previous inspections. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. Tasks presented thereon are sequentially arranged and consecutively numbered in the most logical order to perform the required tasks. Special requirements are scheduled to be performed as dictated by a cumulative number of days, hours, or events as applicable.

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## APPLICATION

The scheduled maintenance requirements set forth herein shall be accomplished at the intervals established on the abbreviation and index cards with the exception of the daily requirements. Daily requirements shall be accomplished upon initial installation of the equipment or special store(s) and when usage of the equipment or special store(s) is contemplated.

3.3.7.5 SE/ATE Calendar/Hour/Start/Special/Preservation/Conditional Manuals (introduction and application statements). The introduction and application statements shall be presented verbatim as expressed below. When hazardous materials are referenced in the manual, the statement in 3.1.7.1 shall be included.

## INTRODUCTION

This manual contains the minimum Calendar/Hour/Start/Special/Preservation/Conditional (if applicable) requirements necessary to ensure the SE or ATE is safe for operational use. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. These requirements are grouped in the following order:

Calendar/Hour/Start requirements — include inspections for defects and materail degradation at a greater depth than the preoperational checklist.

Special requirements — are scheduled to be performed on a particular day, or after a cumulative number of operating hours or starts.

Preservation requirements—provide short term preservation procedures, maintenance while preserved and depreservation procedures.

Conditional requirements— are presented in this manual when detailed requirements do not exist in an appropriate technical manual.

## APPLICATION

The maintenance requirements set forth herein shall be accomplished at the intervals listed on the abbreviation and index card. Type (D) Short Term Presentation shall be applied when the SE has been idle in excess of ( ) days and is valid for up to 180 days.

3.3.7.6 Powered Aerial Target (Missile) Acceptance/Initial Buildup Manual (introduction and application statements). The introduction and application statements shall be presented verbatim as expressed below. When hazardous materials are referenced in the manual, the statement in 3.1.7.1 shall be included.

## INTRODUCTION

This manual contains the acceptance inspections, buildup procedures, and testing and servicing requirements for the newly issued target. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. The cards in this manual are arranged in groups according to the rating/MOS required to perform the tasks.



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## APPLICATION

Acceptance/initial buildup requirements shall be accomplished upon issue and uncrating of the new target to prepare it for mission operation.

3.3.7.7 Powered Aerial Target (Missile) Prelaunch Manual (introduction and application statements). The introduction and application statements shall be presented verbatim as expressed below. When hazardous materials are referenced in the manual, the statement in 3.1.7.1 shall be included.

## INTRODUCTION

This manual contains the prelaunch maintenance requirements to inspect the target for defects, to verify servicing, and to ready it for launch. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. The cards and tasks thereon are sequentially arranged and consecutively numbered in a logical order for performing the required tasks.

## APPLICATION

Prelaunch requirements shall be accomplished prior to each use of the target.

3.3.7.8 Powered Aerial Target (Missile) Postlaunch Manual (introduction and application statements). The introduction and application statements shall be presented verbatim as expressed below. When hazardous materials are referenced in the manual, the statement in 3.1.7.1 shall be included.

## INTRODUCTION

This manual contains the postlaunch maintenance requirements to decontaminate the target, inspect it for degradation, and to perform all maintenance and testing necessary to return it to an operationally ready condition. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. The cards in this manual are arranged in groups according to the rating/MOS required to perform the tasks. The cards and tasks are arranged in the most logical order for performing the required tasks.

## APPLICATION

Postlaunch requirements shall be accomplished after each recovery or retrieval of the target.

3.3.7.9 Powered Surface Target Periodic Manuals (introduction and application statements). The introduction and application statements shall be presented verbatim as expressed below. When hazardous materials are referenced in the manual, the statement in 3.1.7.1 shall be included.

## INTRODUCTION

This manual contains the minimum scheduled maintenance requirements to inspect for degradation that has occurred since the preceding inspection interval and to perform essential preventive maintenance.

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### APPLICATION

The maintenance requirements set forth herein shall be accomplished at the intervals listed on the abbreviation index card.

**3.3.8 Introduction and Application Statements and Applicable Equipment List Cards for ALSS maintenance requirements manuals** (see figure 11).

- a. The introduction statement contains the purpose, scope, and arrangement of the manual.
- b. The application statement contains inspection interval applicability information.
- c. The introduction and application statements shall be presented verbatim as expressed below. When hazardous materials are referenced in the manual, the statement in 3.1.7.1 shall be included.

### INTRODUCTION

This manual contains the scheduled maintenance requirements to inspect for degradation and to perform essential preventive maintenance of the ALSS equipment identified in the Applicable Equipment List. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. The cards in this manual are arranged in the sequence listed on the Abbreviation and Index Card. QA requirements are provided at the end of each section.

### APPLICATION

The maintenance requirements set forth herein shall be accomplished at the intervals listed on the Abbreviation and Index Card.

- d. The applicable equipment list shall identify, by nomenclature and part number, each unit of equipment requiring inspection within the specified category of ALSS specified by the PMRM.

**3.3.9 Definitions Card** (see figure 12). Except for the Checklist and PMIC's, the text of this card shall be prepared verbatim as prescribed herein for all PMRM's.

**3.3.10 Removal/Replacement Schedule and Special Tracking Requirements Card** (see figure 13). The introduction and card format shall be as illustrated. The prefacing statement contains the established criteria for removal and replacement of approved scheduled removal components (SRC's).

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a. All items having an approved mandatory removal/replacement interval and those items requiring SRC cards, Assembly Service Record and Modular Service Records as required by OPNAVINST 4790.2 shall be listed. Information shall be included for each aircraft and its critical components indicating their assigned structural life limits as required by NAVAIRINST 13120.1 or NAVAIRINST 13130.1, as applicable. Items requiring a scheduled removal component card shall be preceded by an asterisk (\*). All other requirements shall be identified by reference to notes which shall be provided within each system, e.g. airframe, power plant, electrical power system, landing gear, etc. The information shall be presented in five columns and arranged in the sequence appearing in the work unit code manual index.

(1) Nomenclature - the item nomenclature shall be in consonance with applicable source data and existing technical manuals. When conflict exists, the noun nomenclature presented in the illustrated parts breakdown (IPB) shall take precedence.

(2) Part/model number - the part number as shown in the IPB shall be listed. If the part number is not available, the approved model number shall be used.

(3) Disposition - action to be taken with the removed item shall be stated as either "turn in", "scrap", or "retire."

(4) Removal interval - the removal interval in calendar time, hours, cycles, or events shall be expressed.

(5) Remarks - provides notification of additional requirements or information concerning a particular component.

### 3.3.11 Inspection Requirements Index Cards (see figure 14).

a. The first card contains the following:

(1) The identification code of each type of inspection applicable to the aircraft under consideration, i.e., "D" for "daily," "S" for "special," etc.

(2) The index by systems, listed in the sequence provided by the WUC manual index and the identity of the PMIC card(s) which list the task cards for each system.

b. The second and succeeding cards of the index contain the following:

(1) A list of the systems having inspection requirements arranged in the order appearing in the WUC manual index.

(2) A list, adjacent to each system, identifying all applicable prime task cards.

### 3.3.12 Conditional Inspection Listing Cards (see figure 15).

a. Contain a list of conditional inspections required to be accomplished because of the occurrence of a measurable abnormal operational event which exceeds the design limits of the structural components or equipment and may compromise aircraft safety of flight.

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b. Contain a list of the task requirements including a brief description of what is to be performed and a reference to the publications containing the detailed inspection requirements.

### 3.3.13 Phase Change Implementation Card (see figure 16).

a. This card is required only if during a change or revision of the phased maintenance manual, specific inspection or maintenance requirements are resequenced among the phases causing an unacceptable underinspection of critical systems or components upon implementation of the change or revised PMRM.

b. This card may convey special instructions applicable to implementation of the changed or revised PMRM.

### 3.3.14 Abbreviations and Index Cards (see figures 17, 18, and 19)

a. The abbreviation list identifies each abbreviation and acronym used in the manual. The list is arranged in alphabetical order. The use of abbreviations shall be in accordance with the requirements of MIL-STD-12 (see 3.1.5).

b. The index provides a list of the inspections contained in the manual and an inclusive listing of the cards applicable to each.

### 3.3.15 Phased Maintenance Manual Abbreviations, Index and Checkflight Requirements Cards (see figure 20).

a. The abbreviation list identifies each abbreviation and acronym used in the manual. The list is arranged in alphabetical order. The use of abbreviations shall be in accordance with the requirements of MIL-STD-12 (see 3.1.5).

b. The phased manual index provides:

(1) An inclusive listing of the cards applicable to each phase inspection; and

(2) A checkflight requirement list which identifies the cards applicable to checkflight requirements. Checkflight requirements shall be determined utilizing the conditions set forth in OPNAVINST 4790.2.

### 3.3.16 Special Tools/Support Equipment List Cards (see figures 21, 22, 23).

a. Contain a list of special tools and support equipment required to accomplish the maintenance task requirements listed in this manual.

b. Special tools and support equipment are listed alphabetically by noun nomenclature. The list includes the part number and type or model number. For tasks requiring the simultaneous use of two or more identical items, the quantity is also included.

c. Special adapters, jacks, slings, preoilers, hydraulic test stands, torque wrenches, spring scales, electrical power units, and bomb hoists are examples of items to be included in this list.

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d. The list shall not include common hand tools such as screwdrivers, pliers, etc., which are normally found in the mechanic's tool box.

e. Special tools with several alternate part numbers and easily identified by noun nomenclature shall not be identified by part number, i.e., oil cans, grease guns, push/pull scales, torque wrenches, etc.

f. Special tools/support equipment list cards shall conform to the formats as illustrated by the following:

(1) See figure 21 for PMRM's designed to inspect a multiplicity of categorized equipment configurations, i.e., QECA or ALSS.

(2) See figure 22 for aircraft phased maintenance requirements manuals.

(3) See figure 23 for all other PMRM types requiring this card.

### 3.3.17 Consumable Maintenance Material List Cards (see figures 24, 25, and 26).

a. Contain an alphabetically itemized list, by noun nomenclature, of all consumable maintenance materials necessary to accomplish the tasks listed in the manual. Consumable maintenance materials are those supplies that are consumed through use or for which a definite fixed quantity cannot be specified for each task, such as oil, hydraulic fluid, paint, cleaning solvents, thread, leak detection compounds, dry film lubricant, preservation materials, and lockwire.

b. Included is either the part number, type or specification number of each item listed. Manufacturer brand names are prohibited except where no manufacturer's part number, military specification, or federal specification is assigned to the desired material and the requiring activity has specifically authorized their use or application.

c. Consumable maintenance material list cards shall conform to the formats as illustrated by the following:

(1) See figure 24 for PMRM's designed to inspect a multiplicity of categorized equipment configurations, i.e., QECA or ALSS.

(2) See figure 25 for aircraft phase maintenance requirements manuals.

(3) See figure 26 for all other PMRM types requiring this card.

### 3.3.18 Replacement Parts List Cards (see figures 27, 28, and 29).

a. Contain an alphabetically itemized list, by noun nomenclature, of all replacement parts necessary to accomplish the tasks listed in the manual. Replacement parts are those items that lose their identity when installed, or are not intended for reuse, such as O-rings, gaskets, packing, inspection seals, and cotter pins.

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b. Included is either the part number, type or specification number, and quantity required for each to accomplish the task listed in the manual.

c. Replacement parts list cards shall conform to the formats as illustrated by the following:

(1) See figure 27 for PMRM's designed to inspect a multiplicity of categorized equipment configurations, i.e., QECA or ALSS.

(2) See figure 28 for aircraft phased maintenance requirements manuals.

(3) See figure 29 for all other PMRM types requiring this card.

### 3.3.19 Work Area Cards or Zone Cards (see figures 30 and 31).

a. Contain illustrations that clearly identify the location of the work areas or zones as identified in the applicable aircraft structural manual.

b. Contain numerically sequenced lists of the work area or zone titles as identified by the illustrations.

### 3.3.20 Zone Title and Description Cards (see figure 32).

a. Are required only if a zonal inspection is necessary.

b. The "zones" definition shall be verbatim as expressed below:

#### ZONES

A work area or zone is a general area, such as "RH Outer Wing" or "pilot Compartment." Each work area or zone is assigned a prime number in accordance with the aircraft structural manual. Work areas and zones are divided into smaller areas to facilitate accomplishment of zonal inspections. These smaller areas are zones within the prime numbered work area or zone and are assigned a decimal suffix of the prime number.

c. Provides a description of that portion of each work area or zone requiring a zonal inspection.

d. The boundaries of the zonal inspection required are numbered, titled, and shall be defined in detail.

### 3.3.21 Zonal Inspection Criteria Card (see figure 33).

a. Are only required if a zonal inspection is necessary.

b. Lists zonal inspection criteria.

c. The zonal inspection definition shall be verbatim as expressed below:

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## ZONAL INSPECTION DEFINITION

A zonal inspection is a general inspection of a specific area of aircraft or support equipment where an existing scheduled inspection is being accomplished. These inspections are for obvious defects, such as leaks, frayed cables, cracks, corrosion or physical damage and does not require disassembly, special tools or test equipment. Zonal inspections are performed in conjunction with other scheduled maintenance tasks by the rating assigned. For example, an AQ assigned to perform an inspection on a radar antenna might also be assigned a zonal inspection of the entire compartment for obvious defects.

### 3.3.22 Access Panel Cards (see figure 34).

a. Contain illustrations depicting the views of the aircraft showing the locations of all access panels required to be opened, removed, or inspected.

b. Access panel nomenclature, numbering, and location shall be the same as that used in related technical manuals.

### 3.3.23 Antenna Location Cards (see figure 35).

a. Contain illustrations depicting the views of the aircraft showing the locations of all antennas to be inspected.

b. Antenna nomenclature and location shall be the same as that used in related technical manuals.

### 3.3.24 Task Pages (see figure 36).

a. Contain the inspection requirements necessary to inspect for integrity and to perform servicing checks prior to flight or operation of:

- (1) Aircraft (see 3.2.1.2);
- (2) Support equipment (see 3.2.4.1); and
- (3) Powered surface targets (see 3.2.6.1).

b. Tasks are consecutively numbered and sequentially arranged in logical walkaround order.

### 3.3.25 Sequence Control Cards (see figure 37 and 38).

3.3.25.1 Phase Sequence Control Card(s). (Figure 37). A sequence control card(s) shall be provided for each phase in the Phase manual, which sequences the inspection requirements task cards to be performed. The sequence control card(s) shall be plotted from left to right, starting with the personnel rating and number column, the prephase column, and continuing horizontally into the inspection. The graph coordinate for time shall be divided into equal vertical increments of one hour each. Each hourly increment shall be subdivided into five equal parts. EMT shall be presented in multiples of not less than one tenth hour. The electrical



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power, hydraulic power, and conditioned air requirements shall indicate ON when required to complete the applicable tasks; OFF when application of power or air would be dangerous to personnel or damaging to the equipment. The NA notation shall not be used on the sequence control card(s). Power or air ON or OFF requirements shall be sequenced and grouped whenever possible to avoid frequent changes.

3.3.25.2 QECA Sequence Control Card(s) (see figure 38). A sequence control card(s) shall be provided in the QECA manual, which sequences the QECA inspection requirements for all airframe applications. The upper portion of the first card only shall display the engine work areas/zones and engine illustration. The lower portion shall be divided horizontal and vertical time graph columns as shown in the figure to program the personnel requirements and the accomplishment of the QECA inspection requirements. The graph coordinate for time shall be divided into equal vertical increments of one hour each. Each hourly increment shall be subdivided into five equal parts. EMT shall be presented in multiples of not less than one tenth hour.

3.3.26 Task Cards (see figures 39 and 40).

- a. Contain the maintenance requirements for each type of inspection.
- b. Task cards shall be prepared as follows:

(1) When a task requires the use of one or more skilled assistants whose responsibilities are well defined, the prime card shall indicate which assistants are required and identify the assistant's card number(s). For example, "assisted by AMS#3, card 19". When a task requires the use of one or more skilled assistants whose responsibilities are not well defined, the prime card shall include the rating of the assistants and the amount of assist time required. For example, "Assisted by AMS #2 (0.3 hrs)." When a task requires the use of multiple assistants whose responsibilities are of an unskilled nature and not well defined, the prime card shall state, "assistance as required." In the last two instances, separate assist cards are not prepared.

(2) A list identifying the noun nomenclature and part, type, or specification number of special tools and support equipment required to accomplish all tasks shall precede the consumable/replacement parts list or in the absence of the consumable/replacement parts list, shall precede the first task of the prime card. However, special tools with several alternate part numbers which are easily identified by noun nomenclature do not require further identification by part number, i.e., oil cans, grease guns, torque wrenches, etc. Common hand tools (tools commonly found in the maintenance man's toolbox) are not included in this list. If only one special tool or item of support equipment of a particular type is listed, then only its noun nomenclature shall appear in the task or step requiring it. An exception to this requirement is allowed in the QECA manual when due to the close similarity of certain items, such as spanner wrenches and bearing pullers, there is a distinct possibility that the wrong tool could be selected. When more than one special tool or item of support equipment with the same noun nomenclature is listed, each item shall be identified by part, type, or specification number in the tasks or steps to which they apply.



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(3) A list of consumables and replacement parts necessary to accomplish the task shall precede the first task of the prime card. When more than one consumable or replacement part with the same noun nomenclature is listed, the part, type, or specification number shall be specified in each applicable task or step. If, however, only one consumable or replacement part of a particular nomenclature is listed, then only the nomenclature shall be identified in the applicable task or step. An exception to this requirement is allowed in the QECA manual when due to the close similarity of certain consumables and replacement parts there is a distinct possibility that the wrong item could be selected and installed if not fully identified.

(4) Each task and its related steps shall be arranged in a logical sequence to provide a means of performing the requirements in the most accurate and efficient manner.

(5) When two or more assemblies have identical task requirements, only the first assembly's task need be fully identified. Subsequent assemblies requirements shall state, "repeat task (number) through task (number)."

(6) Requirements appearing on each primary card and its associated decimal card(s) shall be limited to a single system, subsystem, assembly, or component. If, however, the requirements to be listed are not extensive enough to warrant individual primary cards, they may be grouped by rating or MOS group; one rating or MOS group per primary card.

(7) Except for illustration cards, the requirements for electrical power, hydraulic power and conditioned air shall be consistent throughout all maintenance requirements decimal cards as indicated on the prime card.

(8) Group requirements by one work area or zone or, when necessary, to a limited number of work areas or zones.

(9) Limit the EMT to two hours on the primary card and its associated decimal card(s) when possible.

c. Preservation requirements.

(1) On preservation cards, a note shall be added on each prime task card to identify the preservation card sequence.

(2) For each special inspection card which remains valid during preservation, the following note shall be added:

"NOTE": The requirements of this card remain valid when the aircraft is in a Type (D) short term preservation status."

d. QA requirements.

(1) Functions which require a QA inspector to observe the actual accomplishment of the maintenance task, i.e., torquing, assembly, etc., shall have the following note placed immediately preceding the task to be observed.

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"NOTE": QA (card number) shall witness (task/step number)."

(2) Functions which require a QA inspection after accomplishment of the maintenance task shall have the following note placed immediately preceding it:

"NOTE": QA (card number) required after accomplishment of task/step number)."

e. Continued Notation (see figures 39 and 41). If the task is continued on additional card faces, the lower right hand-corner of each card face shall have the word "Continued."

f. End of card notation (see figures 40 and 42). If the task is completed on one card face, the words "End of Card" shall appear in the lower right-hand corner of the card face.

g. Blank card notation (see figures 40 and 42). When a blank card face appears, the blank card face shall be assigned a number which shall appear on the preceding card face only; for example, if Card 9.1 is blank, Card 9 shall have the notation "(Card 9.1 Blank)" in the lower right hand corner below the "End of Card" notation.

### 3.3.27 Illustration Cards (see figure 40).

a. Illustrations shall be used only when needed to clarify the maintenance task.

b. Illustrations, whenever possible, shall be on the same or adjacent card to the text to which they apply. They shall depict the affected area as it appears to the maintenance personnel conducting the associated maintenance task.

c. When feasible, illustrations from associated manuals shall be used.

d. Normally, illustrations will be framed as shown in figure 40.

### 3.3.28 Assist Cards (see figure 42).

a. Contain step-by-step tasks for supporting the requirements of primary cards when assist responsibilities are well defined and close coordination is required.

b. The rating/MOS and card number of the related primary task card shall be designated. For example, "Assist AD #1, card A-16."

c. Separate assist cards shall not be prepared when a task requires the use of an assistant whose responsibilities are of an unskilled nature or are not well defined. The prime card shall include the rating of the assistant and time required in this case.

d. It is not necessary to provide an assist card for one or more assistants of same RTG/MOS conducting the same task of the prime card.

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3.3.29 Lubrication Task Cards (see figure 43).

a. The following information shall be presented in four columns as shown in figure 43.

(1) Item - designates the lubrication points as identified on the lubrication illustration card. Numbers are assigned in a clockwise fashion.

(2) Nomenclature - identifies the item being lubricated. The item nomenclature shall be in consonance with applicable source data and existing technical manuals. When conflict exists, the noun nomenclature presented in the IPB shall take precedence.

(3) No. of points - lists the number of lubrication points of each item.

(4) Specification - identifies the type or lubrication to be applied to each point.

b. A lubrication illustration card shall be used to clarify the maintenance task described on this card.

3.3.30 Lubrication Illustration Cards (see figures 44 and 45).

a. Lubrication illustrations shall include all scheduled lubrication requirements identified on the lubrication task card (see 3.3.24.2). Items shall be numerically sequenced in a clockwise fashion around the major assembly to which the lubrication task applies.

b. The lubrication application symbols, abbreviated lubrication specification numbers, and item numbers shall be depicted. The item number shall have a leader line extending to each point on the illustration that requires servicing. The item number may designate more than one point of servicing. Dashed leader lines shall be utilized to designate lubrication points on the opposite side of the assembly.

c. The number of lubrication points listed on the task card shall be the same number as those shown on the illustration card.

d. When two or more assemblies have similar lubrication requirements, a note stating which assembly is shown and which assemblies are similar shall be required for the illustration card, i.e., "left side shown, right side similar."

e. A point of servicing which has been designated by a lubrication symbol in one view shall not be redesignated in another view.

f. Authorized lubrication symbols are illustrated in figure 45.

g. Special notes may appear when necessary to explain special circumstances not otherwise provided by the standard symbols.

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3.3.31 QA Cards (see figure 46).

a. Contain requirements to inspect systems and components whose integrity has been disturbed during scheduled maintenance and where maintenance, if improperly performed, could cause equipment failure or jeopardize the safety of personnel. QA inspections are performed as necessary either during or after task performance.

b. When a task is referenced to another TM and a QA task is included, there is no requirement for a QA task card if QA is called for in the TM.

c. The following note shall be used to refer the QA inspector to the task requiring the inspection:

"NOTE": Refer to task card (card number/step number)."

d. Requirements on QA cards shall be limited to a single system, subsystem, assembly, or component.

e. Card sequencing shall be as follows:

(1) QA cards for the aircraft daily/special/preservation manual shall be sequenced immediately following the task card set for the respective inspection interval. For example, all QA cards required for the 28 day special inspection shall be sequenced behind the last 28 day special task card.

(2) QA cards for each aircraft phase inspection shall be sequenced in back of each phase card set.

(3) QA cards in the QECA manual shall follow their respective card sets, i.e., QA cards pertaining to the engine shall follow the engine task cards; QA cards pertaining to a particular QEC shall follow that QEC's task cards.

(4) QA cards for the airborne armament or special stores daily/special manual shall be sequenced immediately following the card set for the respective inspection interval. For example, all QA cards required for the 28 day special inspection shall be placed behind the last 28 day special task card.

(5) QA cards shall be sequenced in the back of the following manuals:

- (a) Support equipment periodic maintenance manual.
- (b) Powered aerial target acceptance/initial buildup manual.
- (c) Powered aerial target prelaunch manual.
- (d) Powered aerial target postlaunch/servicing manual.
- (e) Powered surface targets periodic maintenance manual.

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(6) QA cards for the aviation life support systems periodic maintenance manual shall be sequenced in back of the task cards of each type of equipment covered by the manual.

3.4 Card Numbering.

3.4.1 PMIC Manual (numbering).

- a. The title card shall not be numbered.
- b. "A" cards shall be sequenced alphabetically using capitalized letters. Card A shall be printed on the back of the title card.
- c. List of Technical Publication Deficiency Reports Incorporated Card (TPDR Card) shall follow the "A" cards and be numbered TPDR-1, TPDR-2, etc.
- d. The preface card (introduction card) shall be numbered using the lower case Roman numeral i.
- e. All cards, except the title, "A" card, TPDR card and preface cards, shall be assigned consecutive Arabic numerals.
- f. The addition of new cards to an existing manual shall be accomplished in accordance with 3.4.7.

3.4.2 Checklists (numbering).

- a. The title/introduction/application page shall be numbered using the lower case Roman numeral i.
- b. Task pages shall be assigned consecutive Arabic numerals as illustrated in figure 47.

3.4.3 Daily/Special/Preservation/Conditional/ASPA Manual (numbering). This manual shall be numbered as follows:

- a. The title card shall not be numbered.
- b. "A" cards shall be sequenced alphabetically using capitalized letters. Card A shall be printed on the back of the title card.
- c. List of Technical Publication Deficiency Reports Incorporated Card (TPDR Card) shall follow the "A" cards and be numbered TPDR-1, TPDR-2, etc.
- d. Preface cards (does not include title card, "A" cards or TPDR cards) shall be consecutively numbered using lower case Roman numerals.

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e. Task cards shall be assigned consecutive Arabic numerals. Prime cards shall be sequenced using integers, i.e., 1, 2, 3, 4, etc. Decimal cards, when required, shall use decimal suffixes, i.e., 1.1, 1.2, or 2.1, 2.2, 2.3, etc. The word "Continued" shall be printed in the lower right corner of the card to indicate that the task continues to a successive decimal card. The words "End of Card" shall be printed in the lower right corner of the card to indicate that the task requirements have been completed and that no decimal card follows. A prime card shall not be printed on the reverse side of a decimal card but shall be established on a new card. Blank card faces generated by this restriction shall not be numbered. The words "(Card (card number) Blank)" shall be printed in the lower right corner of a card to indicate that the succeeding card face is blank. Refer to figure 42 for example of task card numbering.

3.4.4 Phased Maintenance Requirements Manual (numbering). This manual shall be numbered as follows:

- a. The title card and phase cover cards shall not be numbered.
- b. "A" cards shall be sequenced alphabetically using capitalized letters. Card A shall be printed on the back of the title card.
- c. List of Technical Publication Deficiency Reports Incorporated Card (TPDR Card) shall follow the "A" cards and be numbered TPDR-1, TPDR-2, etc.
- d. Preface cards (does not include title card or "A" card or TPDR card) shall be consecutively numbered using lower case Roman numerals.
- e. Task cards within each phase shall be grouped alphabetically by rating or numerically by MOS. They shall be assigned consecutive Arabic numerals preceded by the appropriate phase designator, i.e., A-1, A-2 or B-1, B-1.1, B-1.2, etc. Prime cards shall be sequenced using integers, i.e., A-1, A-2, A-3, etc. Decimal cards, where required, shall use decimal suffixes, i.e., A-1.1, A-1.2 or B-2.1, B-2.2, B-2.3, etc. The word "continued" shall be printed in the lower right corner of the card to indicate that the task continues to a successive decimal card. The words "end of card" shall be printed in the lower right corner of the card to indicate that the task requirements have been completed and that no decimal card follows. A prime card shall not be printed on the reverse side of a decimal card but shall be established on a new card. Blank card faces generated by this restriction shall not be numbered. The words "(card (card number) blank)" shall be printed in the lower right corner of a card to indicate that the succeeding card face is blank. Refer to figure 39 for example of phase task card numbering.

3.4.5 QECA PMRM (numbering). Engine cards shall be numbered as outlined in 3.4.3. Consecutive hundred series cards shall be assigned to each QEC required. If the engine cards are numbered 1 through 69, for example, the QEC cards applicable to the first airframe would be numbered starting with 101, the QEC cards applicable to the second airframe would be numbered starting with 201, etc.

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3.4.6 ALSS PMRM (numbering). Cards shall be numbered as outlined in 3.4.3 with the following exception. Each type of equipment being inspected shall be assigned consecutive hundred series cards. For example, the LR-1 life raft would be assigned task card numbers 101-199; the LRU-12/A (MK-4) life raft would be assigned task card numbers 201-299, etc.,

3.4.7 Added Cards. When a new card is added to an existing PMRM, the new card shall be identified by using the appropriate existing card number plus an alphabetical suffix. For example, new cards inserted between task cards, 12.1 and 12.2 would be identified as 12.1A, 12.1B, 12.1C, etc. Similarly, a new primary card added between cards 15 and 16 would be identified as card 15A. When cards are added to preface cards (introduction), the added preface card(s) shall be identified by using the appropriate Roman numeral plus an alphabetical suffix.

3.4.8 Deleted Cards. When card number continuity is broken by deletion of a card, a statement indicating the deletion shall be placed in the bottom margin of the preceding card; for example, "all data on card (card number), including figure number (figure number) deleted." This also applies when two back-to-back cards are deleted.

3.4.9 Renumbering. During a revision, all preface, task, and illustration cards shall be renumbered, as necessary, to eliminate card number alphabetic suffixes and to reestablish the correct card sequence.

3.5 Changes and Revisions. PMRM's covered herein shall be changed or revised to reflect all approved changes. Checklists shall always be revised not changed (see 6.2.1).

3.5.1 Changes. A change is any alteration of a manual already in existence. It is accomplished by replacement, addition, or deletion of cards, including backup cards, but not sufficient in number to require a complete revision of the manual. Vertical change bars or the letter "R" shall be used to highlight changes. Change bars or symbols shall not be depicted on a complete revision.

3.5.2 Revisions. A PMRM shall be revised when the percentage of an anticipated change plus all previously incorporated changes affect a total of sixty percent of the card faces in the PMRM. The following criteria shall be used to determine the need for a revision:

- a. A change is defined as any information that has been incorporated, deleted, or resequenced in a PMRM since the last revision.
- b. Any change to a card face except for correction of typographical errors shall be counted as one card face.
- c. Each card face affected shall be counted as one card change.
- d. Arabic numbered cards only shall be counted for change purposes.
- e. Percentage of change shall be computed utilizing the following formula:

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Number of Arabic numbered card face changes X 100= percent of change  
Number of Arabic numbered cards

Example: number of Arabic numbered card face changes (200) divided by the total number of Arabic numbered cards in the manual (300) multiplied by 100 equals 66.66 percent change.

f. Each card added or deleted shall count as one card face change. For example, if 100 new cards are added while 100 cards are deleted, the total number of cards changed shall equal 200 cards.

g. Change symbols will not be required for revised manuals.

### 3.6 Printing and Binding.

3.6.1 Card-Type Manuals (printing and binding). Printing and binding shall be accomplished in accordance with MIL-P-38790, except that the cards within each manual shall be backed up head to foot. If the back of the card is not used, it shall remain blank. Sequence control cards shall be printed on the front face only.

3.6.2 Checklists (printing). Printing shall be accomplished in accordance with MIL-P-38790. The checklist shall be printed on both sides, head to head. The number of pages shall be the total number required, starting from left to right for the front and back page faces. The numbering of pages shall be presented as illustrated in figure 49 as applicable.

3.6.3 Paper Stock. Card type manuals and checklist shall be printed on white, 110 pound, twenty-five percent, Type B Index Stock (JCP-K20) as specified in UU-P-258.

3.6.4 Trim Size. Card type manuals shall be trimmed to 5 x 8 inches. Checklists shall be trimmed to 3-1/2 x 5-1/2 inches.

3.6.5 Image Area (printed). Printed image area for cards shall be 4-5/16 x 7-1/2 inches. The image area shall be centered on the 5 x 8 inch card with a 3/16 inch margin at the bottom and a 1/2 inch margin at the top. The back of the card shall have 3/16 inch margin at the top and 1/2 inch margin at the bottom. The printed image area of each page of the checklist shall be 3x5 inches centered on the page.

3.6.6 Print Type. Letter Gothic style, 12 pitch.

3.6.7 Type Size. Type size for text and text on illustration cards and checklists shall be 9 point after reduction. Type size for the title and phase cover cards shall be as specified (see 3.3.1 and 3.3.2).

3.6.8 Ink. All printing shall be in black ink.

3.6.9 Drilling. All 5 x 8 inch card type manuals shall have three 1/4 inch diameter holes drilled along a line 3/8 inch from the top edge of the front card face. The centers of the holes shall be 2-3/4 inches apart. The two end holes shall be 1-1/4 inches from the card sides.



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3.6.10 Lamination. Checklists shall be laminated on both sides using .005 acetate or a suitable equivalent.

#### 4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility For Inspection. Unless otherwise specified in the contract, the contractor is responsible for the performance of all inspection requirements specified herein. Except as otherwise specified in the contract or in the purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein unless disapproved by the government. The government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.1.1 Responsibility for Compliance. All items must meet all requirements of sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of assuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling in quality conformance does not authorize sub-mission on known defective material, either indicated or actual, nor does it commit the Government to acceptance of defective material.

4.2 In-process review, validation and verification. In-process review, validation and verification of technical manuals shall be as directed by the requiring activity and in accordance with MIL-M-85337 and AL-855TM-GYD-000.

#### 5. PACKAGING

5.1 Packaging Requirements. Unless otherwise specified in the contract or order, the material furnished in accordance with this specification shall be packaged as follows:

5.1.1 Reproducible Copy. Reproducible copy shall be packed flat and double packaged. Artwork shall not be folded or rolled. The interior material shall be waterproof and free of any chemical substance that would discolor or otherwise render the reproducible copy useless. The exterior package shall be a standard commercial carton at least equal to interstate commerce standards. The carton shall be of sufficient strength to provide for safe delivery and to protect the reproducible material against forms of damage that frequently occur during shipping.

5.2 Classified Material. Classified material shall be packaged in accordance with DOD 5220.22-M.

5.3 Shipping Container Information. In addition to sender and addressee information, the exterior of each container shall bear the following:

- a. Publication number.
- b. Contract or purchase order number.

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c. "Reproducible Copy" when applicable.

d. Number of containers in shipment.

5.4 Packing List. A copy of the letter of transmittal or the packing list shall be placed inside the package. When a shipment consists of several containers, the letter of transmittal or packing list shall be enclosed in the first container and shall identify the material that was packed in each container.

## 6. NOTES

6.1 Intended Use. Technical data prepared to this specification is intended for use by U.S. Navy organizational and intermediate maintenance activities for performing periodic maintenance on aircraft systems, equipment, and support equipment under the cognizance of the Naval Air Systems Command.

### 6.2 Ordering Data.

6.2.1 Acquisition Requirements. Acquisition documents should specify the following:

- a. Title, number, and date of this specification.
- b. Types of manuals (see 1.2).
- c. Form to be furnished (see 3.1.3).
- d. Type size (see 3.1.2.1).
- e. Changes/revisions (see 3.5).

### 6.3 Definitions.

6.3.1 Requiring Activity. The organization of a using military service or that organization delegated by a using service which is responsible for the selection or and determination of requirements for a specific support element.

6.3.2 Copy Freeze Date. The copy freeze date is a date set by the requiring activity after which no additions, deletions, or changes shall be incorporated in the PMRMs. Additions, deletions, and changes after that date shall be accumulated for preparation of a subsequent change or revision of the publication.

6.4 Figures Contained in This Specification. The figures contained in this specification are examples intended to illustrate style, format, and sample content. They shall not be used for interpretation of specific technical context or exact scale requirements.

6.5 Supersedure Information. This specification supersedes, in whole or in part, specifications or other documents used to express general style and format requirements for PMRMs that are covered within the scope of this specification.

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6.6 Additional Information. Additional information relative to U.S. Navy inspection systems, policies, and procedures may be obtained from OPNAVINST 4700 series directives.

6.7 Changes From Previous Issue. Asterisks are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Custodian:

Navy (AS)

Preparing Activity:

Navy (AS)

(Project TMSS N174)

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|  |                  |           |              |              |                 |   |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |
|--|------------------|-----------|--------------|--------------|-----------------|---|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|-----|----|-----|----|
| CARD<br>1  | DATE<br>2        |           |              |              | CHANGE<br>NO. 3 | 4 | ELEC PWR 5 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |
| WORK<br>AREA/ZONE  | C<br>H<br>S<br>N | TIME<br>6 | RTG<br>NO. 7 | MOS<br>NO. 8 | 9               |   | HYD PWR 5  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |
| 10   | 11               | 12        |              |              |                 |   |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |
| <p style="text-align: center;"><u>Block See 3.1.16</u></p> <table> <tr><td>1.</td><td>a.</td></tr> <tr><td>2.</td><td>b.</td></tr> <tr><td>3.</td><td>c.</td></tr> <tr><td>4.</td><td>d.</td></tr> <tr><td>5.</td><td>e.</td></tr> <tr><td>6.</td><td>f.</td></tr> <tr><td>7.</td><td>g.</td></tr> <tr><td>8.</td><td>h.</td></tr> <tr><td>9.</td><td>i.</td></tr> <tr><td>10.</td><td>j.</td></tr> <tr><td>11.</td><td>k.</td></tr> <tr><td>12.</td><td>l.</td></tr> </table> |                  |           |              |              |                 |   |            | 1. | a. | 2. | b. | 3. | c. | 4. | d. | 5. | e. | 6. | f. | 7. | g. | 8. | h. | 9. | i. | 10. | j. | 11. | k. | 12. | l. |
| 1.   | a.               |           |              |              |                 |   |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |
| 2.   | b.               |           |              |              |                 |   |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |
| 3.   | c.               |           |              |              |                 |   |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |
| 4.   | d.               |           |              |              |                 |   |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |
| 5.   | e.               |           |              |              |                 |   |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |
| 6.   | f.               |           |              |              |                 |   |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |
| 7.   | g.               |           |              |              |                 |   |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |
| 8.   | h.               |           |              |              |                 |   |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |
| 9.   | i.               |           |              |              |                 |   |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |
| 10.  | j.               |           |              |              |                 |   |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |
| 11.  | k.               |           |              |              |                 |   |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |
| 12.  | l.               |           |              |              |                 |   |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |
| Continued  |                  |           |              |              |                 |   |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |

Figure 1. Example of Prime and Decimal Card Format.

|   |           |                 |    |    |    |    |    |    |    |     |    |     |    |
|---|-----------|-----------------|----|----|----|----|----|----|----|-----|----|-----|----|
| CARD<br>1.1   | DATE<br>2 | CHANGE<br>NO. 3 | 13 |    |    |    |    |    |    |     |    |     |    |
| 14  |           |                 |    |    |    |    |    |    |    |     |    |     |    |
| <p style="text-align: center;"><u>Block See 3.1.16</u></p> <table> <tr><td>1.</td><td>a.</td></tr> <tr><td>2.</td><td>b.</td></tr> <tr><td>3.</td><td>c.</td></tr> <tr><td>13.</td><td>m.</td></tr> <tr><td>14.</td><td>n.</td></tr> </table> |           |                 |    | 1. | a. | 2. | b. | 3. | c. | 13. | m. | 14. | n. |
| 1.  | a.        |                 |    |    |    |    |    |    |    |     |    |     |    |
| 2.  | b.        |                 |    |    |    |    |    |    |    |     |    |     |    |
| 3.  | c.        |                 |    |    |    |    |    |    |    |     |    |     |    |
| 13.   | m.        |                 |    |    |    |    |    |    |    |     |    |     |    |
| 14.   | n.        |                 |    |    |    |    |    |    |    |     |    |     |    |
| Continued   |           |                 |    |    |    |    |    |    |    |     |    |     |    |

Figure 2. Example of Preface and Illustration Card Format.

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|  |                                   |         |
|--|-----------------------------------|---------|
| <b>A1-C3AAA-MRC-400</b>  |                                   | 14 pt   |
| <b>TECHNICAL MANUAL</b>  |                                   | 14 pt   |
| <b>PHASED MAINTENANCE REQUIREMENTS</b>   |                                   | 14 pt   |
| <b>MODEL C-3A AIRCRAFT</b>   |                                   | 14 pt   |
| <b>THIS CHANGE INCORPORATES IRAC 7</b>   |                                   | 9 pt    |
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| <b>1 JANUARY 1982</b>  |                                   | 14 pt   |
| S/N 0801-LP-XXX-XXX (6 - 10 pt)  | <b>CHANGE 3 — 1 November 1986</b> | 9 pt    |

Figure 3. Example of Aircraft, QECA or ALSS PMRM Title Card.

|  |  |         |
|--|--|---------|
| <b>NAVAIR 17-600-117-6-2</b>   |  | 14 pt   |
| <b>TECHNICAL MANUAL</b>  |  | 14 pt   |
| <b>PERIODIC MAINTENANCE REQUIREMENTS MANUAL</b>  |  | 14 pt   |
| <b>HELICOPTER ENGINE AND AFT TRANSMISSION WINCH,</b>   |  | 14 pt   |
| <b>A02E5808-43 AMERICAN CHAIN AND CABLE COMPANY, INC.</b>  |  | 14 pt   |
| <b>GMAC</b>  |  | 14 pt   |
| <p>This manual supersedes NAVAIR 17-600-117-6-2 dated 1 March 1980 through Change 2 dated 11 April 1981 including RAC's 1 through 8.</p>   |  | 9 pt    |
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| <b>PUBLISHED BY DIRECTION OF THE COMMANDER, NAVAL AIR SYSTEMS COMMAND</b>  |  | 9 pt    |
| <b>1 JUNE 1983</b>   |  | 14 pt   |
| S/N 0817-LP-XXX-XXX  |  | 6 10 pt |

Figure 4. Example of Armament/Special Stores, Support Equipment or Target (surface or aerial) PMRM Title Card.

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|   |                    |
|---|--------------------|
|   | NAVAIR—01—XXX—6—4  |
| <b>MAINTENANCE PHASED<br/>REQUIREMENTS CARDS<br/>PHASE A</b>                          | 14 pt              |
| or  |                    |
|   | NAVAIR 02B—XXX—6—3 |
| <b>QUICK ENGINE CHANGE<br/>MAINTENANCE REQUIREMENTS CARDS<br/>MODEL A-4E AIRCRAFT</b> | 14 pt              |

Figure 5. Example of Phase/QEC Cover Cards.

NAVAIR 13-600-4-6-3

LIST OF EFFECTIVE CARDS

Insert latest changed cards. Dispose of superseded cards in accordance with applicable regulations.

NOTE: The portion of the text affected by the change is indicated by a vertical line or the change symbol "R" in the outer margin of the card.

Dates of issue for original and changed cards

|  |                                       |
|--|---------------------------------------|
| Original ..... 1 JAN 82 incl. RAC's 1 thru 6 | Change 2 ..... 15 APR 85              |
| Change 1 ..... 1 JUN 82                      | Change 3 ..... 1 NOV 86 (IRAC 8 inc.) |
| RAC 7 ..... 10 SEP 83                        |                                       |

The total number of card faces in this manual is 83 consisting of the following:

| CARD NO.    | CHANGE NO. | CARD NO.        | CHANGE NO. | CARD NO.  | CHANGE NO. |
|-------------|------------|-----------------|------------|-----------|------------|
| Title ..... | 3          | vi .....        | 1          | 2.2 ..... | 3          |
| A .....     | 3          | vii .....       | 2          | 2.3 ..... | 2          |
| B .....     | 3          | viii .....      | 2          | 3 .....   | 2          |
| C .....     | 3          | 1 .....         | 2          | 3.1 ..... | 3          |
| i .....     | 1          | 1.1 .....       | 0          | 3.2 ..... | 3          |
| ii .....    | 2          | 1.2 .....       | 3          | 3.3 ..... | 2          |
| iii .....   | 1          | 1.3 Blank ..... | 3          | 3.4 ..... | 2          |
| iv .....    | 2          | 2 .....         | 3          | 3.5 ..... | 1          |
| v .....     | 2          | 2.1 .....       | 3          | 3.6 ..... | 1          |

**A CHANGE 3**

Figure 6. Example of "A" Card.

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|                       |  |                      |   |
|-----------------------|--|----------------------|---|
| <b>CARD</b><br>TPDR-1 | A1-C3AAA-MRC-000<br><b>DATE</b> 1 January 1984 | <b>CHANGE</b><br>NO. | <b>TECHNICAL PUBLICATION DEFICIENCY REPORTS</b> |
|-----------------------|--|----------------------|---|

LIST OF TECHNICAL PUBLICATIONS DEFICIENCY REPORTS INCORPORATED

| <u>Identification No/Sequence No.</u> | <u>Location</u> |
|---------------------------------------|-----------------|
| VP-49, No. 0016/56652                 | Card No. 3 16   |
| NAS Whidbey Island, No. 0141/60348    | Card No. 3 20   |
| HSL-43, No. 0037/70849                | Card No. 4 5    |
| NAF Mayport, No. 0221/70849           | Card No. 5 9    |

End of Card  
(Card TPDR 2 Blank)

Figure 7. Example of Technical Publications Deficiency Report (TPDR) Card.

A1-C3AAA-MRC-100

**TURNAROUND CHECKLIST  
MODEL C-3A AIRCRAFT**

This manual supersedes NAVAIR A1-C3AAA-MRC-100 dated 1 April 1977 and previously issued IRAC's 1 through 8.

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**INTRODUCTION**

This checklist contains abbreviated inspection requirements that are necessary to inspect the integrity of the aircraft for flight and to determine the need for servicing. Time required to perform these tasks is approximately (1) hour EMT.

**WARNINGS/CAUTIONS APPLICABLE  
TO HAZARDOUS MATERIALS**

Warnings and cautions for hazardous materials listed in this manual are designed to warn personnel of hazards associated with such items when they come in contact with them by actual use. Additional information related to hazardous materials is provided in OPNAVINST 5100.23, Navy Occupational Safety and Health

S/N 0801-LP-XXX-XXX 1 January 1987

Figure 8. Example of Title/Introduction/  
Application Page for Checklists.

A1-C3AAA-MRC-100

(NAVOSH) Program Manual, NAVSUPINST 5100.27, Navy Hazardous Material Program and the DOD 6050.5, Hazardous Materials Information System (HMIS) series publications. For each hazardous material used within the Navy, a Material Safety Data Sheet (MSDS) is required to be provided and available for review by users. Consult your local safety and health staff concerning any questions on hazardous materials, MSDS, personal protective equipment requirements and appropriate handling and emergency procedures.

**APPLICATION**

Turnaround maintenance requirements shall be accomplished between flights and are valid for the period established in OPNAVINST 4790.2. The accomplishment of the Daily Inspection prior to flight does not satisfy the requirements of the Turnaround Inspection.

**WARNING:** Do not use ejection seat safety pin (MDE 32722-311) on ejection seats before ACC 187.

Area must be free of foreign objects and the following safety items installed/removed or properly positioned as applicable.

- Centerline stores rack (if installed).
- External wing fuel tanks (if installed).
- Wing missile launchers (if installed).
- Arresting gear.
- Landing gear actuator struts (3).
- Arresting hook uplock.

1

Figure 8. Example of Title/Introduction/  
Application Page for Checklists.  
- Continued

## MIL-M-23618G(AS)

|           |   |               |              |
|-----------|---|---------------|--------------|
| CARD<br>I | A1-C3AAA-MRC-000<br>DATE 1 January 1982 | CHANGE<br>NO. | INTRODUCTION |
|-----------|---|---------------|--------------|

**INTRODUCTION**

This manual contains introductory information necessary to ensure proper maintenance of the weapon system. It includes all items having an approved mandatory removal/replacement interval and those items requiring Scheduled Removal Component cards as required by OPNAVINST 4790.2; the Inspection Requirements Index which lists, by system and card number, those requirements to be performed; and the Conditional Inspection Listing for those requirements that shall be accomplished after the occurrence of an overlimit situation.

The Conditional Inspection requirements include a brief description of what is to be performed and a reference to the manual or directive containing detailed requirements.

The Phase Change Implementation Card, if included, identifies additional inspection requirements made necessary by manual update.

In instances where conflict exists between the requirements contained in this manual and other maintenance directives bearing prior dates, this manual shall take precedence.

**WARNINGS/CAUTIONS APPLICABLE TO HAZARDOUS MATERIALS**

Warnings and cautions for hazardous materials listed in this manual are designed to warn personnel of hazards associated with such items when they come in contact with them by actual use. Additional information related to hazardous materials is provided in OPNAVINST 5100.23, Navy Occupational Safety and Health (NAVOSH) Program Manual, NAVSUPINST 5100.27, Navy Hazardous Material Program and the DOD 6050.5, Hazardous Materials Information System (HMIS) series publications. For each hazardous material used within the Navy, a Material Safety Data Sheet (MSDS) is required to be provided and available for review by users. Consult your local safety and health staff concerning any questions on hazardous materials, MSDS, personal protective equipment requirements and appropriate handling and emergency procedures.

Continued

Figure 9. Example of Introduction Card for Aircraft PMIC Manual.

|           |   |               |  |
|-----------|---|---------------|--|
| CARD<br>I | A1-C3AAA-MRC-300<br>DATE 1 January 1982 | CHANGE<br>NO. | INTRODUCTION AND APPLICATION STATEMENT |
|-----------|---|---------------|--|

**INTRODUCTION**

This manual contains the minimum Daily/Special/Preservation and Conditional and ASPA requirements necessary to ensure the aircraft is safe for flight. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. These requirements are grouped in the following order:

Daily requirements — include inspections for defects and system degradation at a greater depth than the Turnaround Checklist.

Special requirements — are developed from tasks which do not fit in the phased package due to conflicting interval requirements. Inspections performed during Turnaround or Daily inspections shall not be duplicated by Special Inspections.

Preservation requirements — provide short term preservation procedures, maintenance while preserved and depreservation procedures.

Conditional requirements — are presented in this manual when detailed requirements do not exist in an appropriate technical manual.

ASPA requirements — provide Special inspection requirements for preparation of the aircraft for ASPA evaluation and for restoration to a flight ready condition.

Continued

Figure 10. Example of Introduction and Application Statement Card for Daily/Special/Preservation/Conditional/ASPA Manual.



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| CARD<br>#  | DATE | CHANGE<br>NO. |           |
|--|------|---------------|-----------|
| <b>WARNINGS/CAUTIONS APPLICABLE TO HAZARDOUS MATERIALS</b>   |      |               |           |
| <p>Warnings and cautions for hazardous materials listed in this manual are designed to warn personnel of hazards associated with such items when they come in contact with them by actual use. Additional information related to hazardous materials is provided in OPNAVINST 5100.23, Navy Occupational Safety and Health (NAVOSH) Program Manual, NAVSUPINST 5100.27, Navy Hazardous Material Program and the DOD 6050.5, Hazardous Materials Information System (HMIS) series publications. For each hazardous material used within the Navy, a Material Safety Data Sheet (MSDS) is required to be provided and available for review by users. Consult your local safety and health staff concerning any questions on hazardous materials, MSDS, personal protective equipment requirements and appropriate handling and emergency procedures.</p> |      |               |           |
| <b>APPLICATION</b>   |      |               |           |
| <p>Daily requirements are valid for the period established by OPNAVINST 4790.2. The accomplishment of these requirements prior to flight shall not satisfy the requirements of a Turnaround inspection. Special Preservation, and Conditional and ASPA requirements shall be accomplished at the interval or condition specified on the card.</p>  |      |               |           |
| <p>Type (D) Short Term Preservation shall be applied when the aircraft has been idle/nonflyable in excess of 30 days and is valid for up to 180 days.</p>  |      |               |           |
|  |      |               | Continued |

Figure 10. Example of Introduction and Application Statement Card for Daily/Special/Preservation/Conditional/ASPA Manual. - Continued

| CARD<br>#  | NAVAIR 13-600-3-6-3<br>DATE 1 January 1982 | CHANGE<br>NO.      | INTRODUCTION/APPLICATION<br>AND APPLICABLE EQUIPMENT |
|--|--|--------------------|--|
| <b>INTRODUCTION</b>  |  |                    |  |
| <p>This manual contains the scheduled maintenance requirements to inspect for degradation and to perform essential preventive maintenance of the ALSS equipment identified in the Applicable Equipment List. Clearances, pressures, tolerances, illustrations, support equipment and manual references are presented where pertinent. The cards in this manual are arranged in the sequence listed on the Abbreviation and Index Card. QA requirements are provided at the end of each section.</p>  |  |                    |  |
| <b>WARNINGS/CAUTIONS APPLICABLE TO HAZARDOUS MATERIALS</b>   |  |                    |  |
| <p>Warnings and cautions for hazardous materials listed in this manual are designed to warn personnel of hazards associated with such items when they come in contact with them by actual use. Additional information related to hazardous materials is provided in OPNAVINST 5100.23, Navy Occupational Safety and Health (NAVOSH) Program Manual, NAVSUPINST 5100.27, Navy Hazardous Material Program and the DOD 6050.5, Hazardous Materials Information System (HMIS) series publications. For each hazardous material used within the Navy, a Material Safety Data Sheet (MSDS) is required to be provided and available for review by users. Consult your local safety and health staff concerning any questions on hazardous materials, MSDS, personal protective equipment requirements and appropriate handling and emergency procedures.</p> |  |                    |  |
| <b>APPLICATION</b>   |  |                    |  |
| <p>The maintenance requirements set forth herein shall be accomplished at the intervals listed on the Abbreviation and Index Card.</p>   |  |                    |  |
| <b>APPLICABLE EQUIPMENT LIST</b>   |  |                    |  |
| <u>Nomenclature</u>  |  | <u>Part Number</u> |  |
| Life Raft Assembly   | LR-1                                       | Life Raft Assembly | LRU-13A  |
| Life Raft Assembly   | LRU-7/P                                    | Life Raft Assembly | LRU-14/A   |
|  |  |                    | Continued  |

Figure 11. Example of Introduction and Application Statement and Applicable Equipment List Card for ALSS Maintenance Requirements Manuals.

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| CARD<br>IV  | NAVAIR 17 600-119 6 2<br>DATE 15 May 1981 | CHANGE<br>NO. | DEFINITIONS |
|---|---|---------------|-------------|
| DEFINITIONS   |   |               |             |
| CAUTION --- Indicates danger to the system. The caution precedes the item to which it refers.   |   |               |             |
| DAMAGE --- A harmful condition caused by an abnormal force or object.   |   |               |             |
| WARNING --- Indicates danger to personnel. The warning precedes the item to which it refers.  |   |               |             |
| EVIDENCE --- An indication of an existing condition, such as hydraulic fluid dripping from the lower wing surface is evidence of a leak.  |   |               |             |
| NOTE --- An information item. The note precedes the item to which it refers.  |   |               |             |
| OBVIOUS --- Easily seen or understood, clear to the eye or mind, not to be doubted.   |   |               |             |
| SECURITY --- An item firmly, positively, and safely attached in the approved manner.  |   |               |             |
| SPECIFIED --- Refers to a definite amount, operation, or limitation.  |   |               |             |
| VISIBLE or EXPOSED --- The term applied when inspection requires no further disassembly or movement of equipment and no removal of doors or panels other than that specifically detailed. |   |               |             |
|   |   |               | Continued   |

Figure 12. Example of Definitions Card.

| CARD<br>V   | NAVAIR 17 600-119 6 2<br>DATE 15 May 1981 | CHANGE<br>NO. | DEFINITIONS |
|---|---|---------------|-------------|
| DEFINITIONS (Cont)  |   |               |             |
| ZONE --- A volume or area of the aircraft/equipment contained within defined boundaries.  |   |               |             |
| ZONAL INSPECTION --- A general inspection of a specific area of an aircraft/equipment at scheduled intervals. A zonal inspection is for obvious defects, such as leaks, frayed cables, cracks, corrosion, or physical damage. |   |               |             |

Figure 12. Example of Definitions Card. - Continued



## MIL-M-23618G(AS)

| CARD<br>1  | A1-C3AAA-MRC-000<br>DATE 1 January 1982 | CHANGE<br>NO. | REMOVAL/REPLACEMENT SCHEDULE<br>AND SPECIAL TRACKING REQUIREMENTS |            |
|--|---|---------------|---|------------|
| NOMENCLATURE   | PART/MODEL<br>NUMBER                    | DISPOSITION   | REMOVAL<br>INTERVAL   | REMARKS    |
| <b>POWER PLANT</b>   |   |               |   |            |
| Engine   | R-1820-82, 82B                          | Turn In       | 2,000 Hr  |            |
| *Propeller   | 43D51-355                               | Turn In       | 2,500 Hr  |            |
| *Propeller Governor  | 4U18-31                                 | Turn In       | 2,500 Hr  |            |
| Carburetor   | PD12K18                                 | Turn In       | 2,500 Hr  | See NOTE 1 |
| *Magneto   | D9-LN-2                                 | Turn In       | 2,500 Hr  |            |
| Deicing Air Pump   | 33E02-1A                                | Turn In       | 1,600 Hr  | See NOTE 2 |
| *Engine Driven Fuel Pump   | AN4101-1 or<br>MS29586-1                | Turn In       | 1,600 Hr  |            |
| Spark Plugs  | ALL                                     | Turn In       | 300 Hr  |            |
| NOTE 1: Component has Assembly Service Record (ASR) OPNAV 4790/106A. |   |               |   |            |
| NOTE 2: Component has Modular Service Record (MSR) OPNAV 4790/135.   |   |               |   |            |
| Continued  |   |               |   |            |

Figure 13. Example of Removal/Replacement Schedule and Special Tracking Requirements Card. - Continued

|           |   |               |                               |  |
|-----------|---|---------------|-------------------------------|--|
| CARD<br>8 | A1-C3AAA-MRC-000<br>DATE 1 January 1982 | CHANGE<br>NO. | INSPECTION REQUIREMENTS INDEX |  |
|-----------|---|---------------|-------------------------------|--|

|  |                      |                  |                     |               |                  |
|--|----------------------|------------------|---------------------|---------------|------------------|
| INSPECTION REQUIREMENTS INDEX  |                      |                  |                     |               |                  |
| This index is listed by system code as arranged in the aircraft work unit code manual. The index identifies each inspection requirement card (coded below) as it applies to each system. |                      |                  |                     |               |                  |
| D  | Daily                | Q                | QECA                |               |                  |
| S  | Special              | PH               | Phased              |               |                  |
| T  | Turnaround checklist | PSVTN            | Preservation        |               |                  |
| COND   | Conditional          |                  |                     |               |                  |
| Index  |                      |                  |                     |               |                  |
| <u>System Codes</u>  | <u>System</u>        | <u>PMIC Card</u> | <u>System Codes</u> | <u>System</u> | <u>PMIC Card</u> |
| 11, 12, 13   | Airframe             | 9-10             | 49                  | Utilities     | 20, 21           |
| 14   | Flight controls      | 11-12            | 51                  | Instruments   | 21, 23           |
| 21, 29, 32   | Power plants         | 12-16            | 52                  | Auto-pilot    | 23               |
| 41   | Air Cond/Prsrz       | 16, 17           | 61-72               | Avionics      | 23, 24           |
| 42, 44   | Electrical           | 18, 19           | 91                  | Emerg Equip   | 24               |
| 45   | Hyd/Pneumatic        | 19               | 97                  | Explosives    | 24               |
| 46   | Fuel                 | 20               |                     |               |                  |
| Continued  |                      |                  |                     |               |                  |

Figure 14. Example of Inspection Requirement Index Card.

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| CARD<br>9                                | A1-C3AAA-MRC-000<br>DATE 1 January 1982 | CHANGE<br>NO.  | INSPECTION REQUIREMENTS INDEX |
|--|---|--|-------------------------------|
| Inspection Requirements by System        |   |  |                               |
| <u>AIRFRAME (System 11)</u>              |   | <u>Task Card</u>   |                               |
| 1. access opening and closing            |   | D-4, D-5, PH-A-37, PH-A-38, PH-B-35, PH-B-37,<br>PH-C-32, PH-C-34, PH-D-34, PH-D-36, PH-D-41,<br>PH-D-42, PH-E-23, PH-E-30, PH-F-30, PH-F-40 |                               |
| 2. aircraft wash                         |   | S-13, PSVTN 70   |                               |
| 3. cowling                               |   | T-4, T-5, T-6, T-7, D-4, PH-A-4, PH-B-4, PH-C-4,<br>PH-D-4, PH-E-4, PH-F-4   |                               |
| 4. fuselage                              |   | T-2, T-4, T-8, D-4, PH-A-34, PH-B-40, PH-C-31,<br>PH-D-31, PH-E-34, PH-F-40  |                               |
| 5. empennage                             |   | T-3, T-8, D-4, PH-D-44   |                               |
| <u>FUSELAGE COMPARTMENTS (System 12)</u> |   | <u>Task Card</u>   |                               |
| 1. pilot's compartment                   |   | T-2, D-1   |                               |
| 2. forward passenger compartment         |   | T-2, D-1   |                               |
| 3. aft compartment                       |   | T-2, D-1   |                               |
| 4. emergency switches                    |   | T-2  |                               |
|  |   |  | Continued                     |

Figure 14. Example of Inspection Requirement Index Card. - Continued

| CARD<br>25   | A1-C3AAA-MRC-000<br>DATE 1 January 1982 | CHANGE<br>NO.   | CONDITIONAL INSPECTION LISTING |
|--|---|---|--------------------------------|
| CONDITIONAL INSPECTION LISTING   |   |   |                                |
| <u>Condition</u>   |   | <u>Task Requirement</u>   |                                |
| 1. Hard landing.   |   | Remove engines. Inspect engine mounts, fuel cell hangers and airframe in accordance with NAVAIR 01-123-3, Sect. 1, Handbook of Structural Repair. |                                |
| 2. Double wire engagement.   |   | Remove arresting gear assembly. Inspect arresting hook lift cylinders in accordance with NAVAIR 01-85SAB-2-2 and Card 62.                         |                                |
| 3. Subjected to excessive loads.   |   | Remove arresting gear assembly. Inspect arresting hook lift cylinders in accordance with NAVAIR 01-85SAB-2-2 and Card 62.                         |                                |
| 4. Prior to carrier deployment after shore based arrestments have been made. |   | Inspect arresting gear hook point in accordance with NAVAIR 01-85SAB-2-2 and Card 60.   |                                |
|  |   |   | Continued                      |

Figure 15. Example of Conditional Inspection Listing Card.

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|                   |   |                             |                                    |
|-------------------|---|-----------------------------|------------------------------------|
| <b>CARD</b><br>25 | <b>A1-C3AAA-MRC-000</b><br><b>DATE</b> 1 January 1982 | <b>CHANGE</b><br><b>NO.</b> | <b>PHASE CHANGE IMPLEMENTATION</b> |
|-------------------|---|-----------------------------|------------------------------------|

**PHASE CHANGE IMPLEMENTATION CARD**

To prevent under-inspection of critical systems during implementation of this publication, perform the additional tasks as listed in the table below.

Use the table for one phase interval for each aircraft.

This card shall be removed from the manual and discarded after all aircraft have completed at least one phase inspection interval.

**NOTE:** This card implements the engine and OEC requirements into the phase inspection manual.

Continued

Figure 16. Example of Phase Change Implementation Card.

|                   |   |                             |                                    |
|-------------------|---|-----------------------------|------------------------------------|
| <b>CARD</b><br>26 | <b>A1-C3AAA-MRC-000</b><br><b>DATE</b> 1 January 1982 | <b>CHANGE</b><br><b>NO.</b> | <b>PHASE CHANGE IMPLEMENTATION</b> |
|-------------------|---|-----------------------------|------------------------------------|

**PHASE CHANGE IMPLEMENTATION CARD**

| PHASE  |  |   |  |   |   |
|--|--|---|--|---|---|
| A  | B  | C   | D  | E   | F   |
| B-10, B-23,<br>B-24, B-25,<br>B-26, B-27,<br>B-57, C-18,<br>C-19, C-22,<br>C-32, C-45,<br>C-56, C-57,<br>C-67, D-12,<br>D-23, D-52,<br>E-11, E-12,<br>E-13, E-49 | A-11, A-15,<br>A-18, A-41,<br>A-48, A-49,<br>C-18, C-19,<br>C-22, C-32,<br>C-45, C-56,<br>C-57, C-67,<br>D-12, D-13,<br>D-52, E-11,<br>E-12, E-13,<br>E-49 | A-11, A-41,<br>B-10, B-11,<br>B-15, B-25,<br>B-26, B-27,<br>B-57, D-12,<br>D-23, D-52,<br>E-11, E-12,<br>E-13, E-49 | A-11, A-41,<br>B-10, B-23,<br>B-24, B-25,<br>B-26, B-27,<br>B-57, C-18,<br>C-19, C-22,<br>C-32, C-45,<br>C-56, C-57,<br>C-67, E-11,<br>E-12, E-13,<br>E-49 | A-11, A-15,<br>A-18, A-41,<br>A-48, A-49,<br>B-10, B-23,<br>B-24, B-25,<br>B-26, B-27,<br>B-57, C-18,<br>C-19, C-22,<br>C-32, C-45,<br>C-56, C-57,<br>C-67, D-12,<br>D-23, D-52 | A-11, A-41,<br>B-10, B-11,<br>B-15, B-23,<br>B-24, B-25,<br>B-26, B-27,<br>B-57, C-18,<br>C-19, C-22,<br>C-32, C-36,<br>C-37, C-38,<br>C-45, C-57,<br>C-67, D-12,<br>D-23, D-52,<br>E-11, E-12,<br>E-13, E-49 |

Continued

Figure 16. Example of Phase Change Implementation Card. - Continued

## MIL-M-23618G(AS)

| CARD<br>vi             | A1-C3AAA-MRC-300<br>DATE 1 January 1982 | CHANGE<br>NO.       | ABBREVIATIONS AND INDEX      |
|------------------------|---|---------------------|------------------------------|
| ABBREVIATIONS          |   |                     |                              |
| AFC                    | Airframe Change                         | NLG                 | Nose Landing Gear            |
| ARR                    | Arrestments                             | NO                  | Number                       |
| CL                     | Center Line                             | PN                  | Part Number                  |
| FRL                    | Fuselage Reference Line                 | PROP                | Propeller                    |
| FS                     | Fuselage Station                        | PSI                 | Pounds Per Square Inch       |
| FT LB                  | Foot Pounds                             | QECA                | Quick Engine Change Assembly |
| FWD                    | Forward                                 | QECK                | Quick Engine Change Kit      |
| HR                     | Hour                                    | RH                  | Right Hand                   |
| IAW                    | In Accordance With                      | STA                 | Station                      |
| IN LB                  | Inch Pounds                             | TDC                 | Top Dead Center              |
| LH                     | Left Hand                               | WS                  | Wing Station                 |
| LUB                    | Lubrication                             |                     |                              |
| MLG                    | Main Landing Gear                       |                     |                              |
| INDEX                  |   |                     |                              |
| <u>Inspection Type</u> |   | <u>Card Numbers</u> |                              |
| Daily                  |   | 1 - 6               |                              |
| Special                |   | 7 - 50              |                              |
| Preservation           |   | 51 - 63             |                              |
| Conditional            |   | 64 - 93             |                              |
|                        |   |                     | Continued                    |

Figure 17. Example of Abbreviations and Index Card for Aircraft, QECA, Airborne Armament Equipment or Special Stores, and Powered Targets (aerial or surface) PMRM.

| CARD<br>v   | NAVAIR 13-600-3-6-3<br>DATE 1 January 1982 | CHANGE<br>NO.          | ABBREVIATIONS AND INDEX             |
|---|--|------------------------|-------------------------------------|
| ABBREVIATIONS   |  |                        |                                     |
| PR  | Aircrew Survival Equipment Man             | HSSP                   | High Speed Soft Pack                |
| PSIG  | Pounds Per Square Inch Gage                | QA                     | Quality Assurance Inspection        |
| HELO  | Helicopter Back Pack                       | NIIN                   | National Item Identification Number |
| INDEX   |  |                        |                                     |
| <u>Inspection Type</u>  |  | <u>Card Numbers</u>    |                                     |
| Special (see NOTE)  |  | Special 225 Day (cont) |                                     |
| LR-1  |  | LRU-13/A               | 401 - 420.1                         |
| Special 225 Day   |  | LRU-14/A               | 501 - 516                           |
| LRU-7/P   |  | LRU-15/A               | 601 - 609.2                         |
| LRU-12/A  |  |                        |                                     |
| 301 - 313.3   |  |                        |                                     |
| NOTE: Maintenance interval dependent on maintenance interval of Seat Survival Kit in which the LR-1 is installed.<br>The following Seat Survival Kits are applicable: |  |                        |                                     |
| SKU-2/A   |  |                        |                                     |
| SKU-3/A   |  |                        |                                     |
| SKU-4/A   |  |                        |                                     |
|   |  |                        | Continued                           |

Figure 18. Example of Abbreviations and Index Card for Aircrew Life Support Systems PMRM's.

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|                        |   |                     |                         |  |
|------------------------|---|---------------------|-------------------------|--|
| CARD<br>vi             | AG-320AO-MRC-200<br>DATE 1 January 1983 | CHANGE<br>NO.       | ABBREVIATIONS AND INDEX |  |
| ABBREVIATIONS          |   |                     |                         |  |
| CL                     | Center Line                             | LUB                 | Lubricate               |  |
| HR                     | Hour                                    | PSI                 | Pounds Per Square Inch  |  |
| IAW                    | In Accordance With                      | TDC                 | Top Dead Center         |  |
| INDEX                  |   |                     |                         |  |
| <u>Inspection Type</u> |   | <u>Card Numbers</u> |                         |  |
| 13 Week                |   | 1 - 9               |                         |  |
| 26 Week                |   | 10 - 13             |                         |  |
| 100 Hour               |   | 14 - 19             |                         |  |
| 200 Hour               |   | 20 - 27             |                         |  |
| Continued              |   |                     |                         |  |

Figure 19. Example of Abbreviations and Index Card for Support Equipment (PMRM's).

|                     |   |                                      |  |
|---------------------|---|--------------------------------------|--|
| CARD<br>iii         | A1-C3AAA-MRC-400<br>DATE 1 January 1982 | CHANGE<br>NO.                        | ABBREVIATIONS/INDEX/<br>CHECKFLIGHT REQUIREMENTS |
| ABBREVIATIONS       |   |                                      |  |
| CRSN                | Corrosion                               | NLG                                  | NOSE LANDING GEAR                                |
| CSD                 | Constant Speed Drive                    | MLG                                  | MAIN LANDING GEAR                                |
| PHASED MANUAL INDEX |   |                                      |  |
| <u>Inspection</u>   | <u>Application Cards</u>                | <u>Checkflight Requirement Cards</u> |  |
| PHASE A             | A-1 through A-50                        | A-20                                 |  |
| PHASE B             | B-1 through B-58                        | B-7                                  |  |
| PHASE C             | C-1 through C-68                        | C-12                                 |  |
| PHASE D             | D-1 through D-53                        | D-4, D-9                             |  |
| PHASE E             | E-1 through E-50                        |                                      |  |
| PHASE F             | F-1 through F-55                        |                                      |  |
| Continued           |   |                                      |  |

Figure 20. Example of Abbreviations, Index and Checkflight Requirement Card for Phased Maintenance Manual.



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|   |  |  |                                      |   |   |   |
|---|--|--|--------------------------------------|---|---|---|
| CARD<br>vii   | NAVAIR 13-600-6-6-3<br>DATE 1 January 1982 | CHANGE<br>NO.                                | SPECIAL TOOLS/SUPPORT EQUIPMENT LIST |   |   |   |
| SPECIAL TOOLS/SUPPORT EQUIPMENT   |  |  |                                      |   |   |   |
| The following special tools and support equipment are necessary to accomplish the requirements contained in this manual |  |  |                                      |   |   |   |
| NOTE: Equipment configuration is identified under the Quantity Required column as follows:                              |  |  |                                      |   |   |   |
| A - LRU-1<br>B - LRU-7/P  |  | C - LRU-12/A<br>D - LRU-13/A                 | E - LRU-14/A                         |   |   |   |
| <u>Nomenclature</u>   | <u>Part No, Type<br/>or Model No</u>       | <u>Quantity Required</u><br><u>A B C D E</u> |                                      |   |   |   |
| 1. Air Source, Low Pressure Dry   | -  | 1  | 1                                    | 1 | 1 | 1 |
| 2. Gage, Depth  | GGG-C-105 Type III                         | 1  | 1                                    | 1 |   |   |
| 3. Glass, Magnifying  | GG-M-95                                    | 1  | 1                                    | 1 | 1 | 1 |
| 4. Kit, Inflator, Assembly  | MOO-8348/1-1                               | 1  |                                      |   | 1 |   |
| 5. Kit, Contamination Analysis  | 57L414                                     | 1  | 1                                    | 2 | 2 | 3 |
| 6. Light, High Intensity  | -  |  |                                      |   |   |   |
| Continued   |  |  |                                      |   |   |   |

Figure 21. Example of Special Tools/Support Equipment Card (or replacement parts card) for Aircrew Life Support Systems or QECA PMRM's.

|   |   |  |                                      |   |   |   |   |
|---|---|--|--------------------------------------|---|---|---|---|
| CARD<br>v   | A1-C3AAA-MRC-400<br>DATE 1 January 1982 | CHANGE<br>NO.                                  | SPECIAL TOOLS/SUPPORT EQUIPMENT LIST |   |   |   |   |
| SPECIAL TOOLS/SUPPORT EQUIPMENT   |   |  |                                      |   |   |   |   |
| The following special tools and support equipment are necessary to accomplish the requirements contained in this manual |   |  |                                      |   |   |   |   |
| <u>Nomenclature</u>   | <u>Part No, Type<br/>or Model No</u>    | <u>Quantity required</u><br><u>A B C D E F</u> |                                      |   |   |   |   |
| 1. Adapter, Lubrication   | 123GT10056                              |  | 1                                    |   | 1 |   | 1 |
| 2. Adapter, Lubrication   | 314150                                  | 1  | 1                                    |   | 1 |   |   |
| 3. Air Source, Low Pressure, Dry  | -                                       | 1  | 1                                    | 1 | 1 | 1 | 1 |
| 4. Assembly, Hydraulic Fluid, Sampling  | E19-8330-2                              | 1  | 1                                    | 1 | 1 | 1 | 1 |
| 5. Caps, Hydraulic Line   | AN929-4                                 | 4  | 3                                    | 4 | 3 | 4 | 3 |
| 6. Caps, Hydraulic Line   | AN929-6                                 | 2  | 3                                    | 2 | 3 | 2 | 3 |
| 7. Caps, Suction Line   | NAS-818-16                              | 3  | 2                                    | 3 | 2 | 3 | 2 |
| 8. Clamps, Hose (No 4)  | -                                       | 2  | 2                                    | 2 | 2 | 2 | 2 |
| 9. Container, (1 Gallon Hydraulic)  | -                                       | 2  | 2                                    | 2 | 2 | 2 | 2 |
| 10. Container, (Oil)  | -                                       | 2  | 2                                    | 2 | 2 | 2 | 2 |
| 11. Container, (Solvent)  | -                                       | 1  | 1                                    | 1 | 1 | 1 | 1 |
| Continued   |   |  |                                      |   |   |   |   |

Figure 22. Example of Special Tools/Support Equipment Card for Aircraft Phased Maintenance Requirements Manual.

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|                    |   |                             |   |
|--------------------|---|-----------------------------|---|
| <b>CARD</b><br>vii | <b>AG-320AO-MRC-020</b><br><b>DATE</b> 1 January 1983 | <b>CHANGE</b><br><b>NO.</b> | <b>SPECIAL TOOLS/SUPPORT EQUIPMENT LIST</b> |
|--------------------|---|-----------------------------|---|

**SPECIAL TOOLS/SUPPORT EQUIPMENT**

The following special tools and support equipment are necessary to accomplish the requirements contained in this manual.

| <u>Nomenclature</u>       | <u>Part No. Type<br/>or Model No</u> | <u>Quantity<br/>Required</u> |
|---------------------------|--------------------------------------|------------------------------|
| 1. Adapter, Lubrication   | 123GT10056                           | 1                            |
| 2. Caps, Hydraulic Line   | AN929-4                              | 2                            |
| 3. Caps, Hydraulic Line   | AN929-6                              | 3                            |
| 4. Gage, Tire (0-100 PSI) | 237621841                            | 1                            |
| 5. Stands, Jack (10 Ton)  | Regent 993                           | 4                            |

Continued

Figure 23. Example of Special Tools/Support Equipment Card for Support Equipment PMRM's.

|                     |  |                             |   |  |  |  |  |
|---------------------|--|-----------------------------|---|--|--|--|--|
| <b>CARD</b><br>viii | <b>NAVAIR 13-600-3-6-3</b><br><b>DATE</b> 1 January 1982 | <b>CHANGE</b><br><b>NO.</b> | <b>CONSUMABLE MAINTENANCE MATERIAL LIST</b> |  |  |  |  |
|---------------------|--|-----------------------------|---|--|--|--|--|

**CONSUMABLE MAINTENANCE MATERIAL LIST**

The following consumable maintenance materials are necessary to accomplish the requirements contained in this manual.

NOTE: Equipment configuration is identified under the Material Required column as follows:

|           |            |            |
|-----------|------------|------------|
| A LRU-1   | C LRU-12/A | E LRU-14/A |
| B LRU-7/P | D LRU-13/A |            |

| <u>Nomenclature</u>                 | <u>Part No. Type<br/>or Model No</u> | <u>Material Required</u> |          |          |          |          |
|-------------------------------------|--------------------------------------|--------------------------|----------|----------|----------|----------|
|                                     |                                      | <u>A</u>                 | <u>B</u> | <u>C</u> | <u>D</u> | <u>E</u> |
| 1. Adhesive, Polychloroprene        | MIL-A-5540                           | X                        | X        | X        | X        | X        |
| 2. Cord, Nylon, Type I              | MIL-C-5040                           | X                        | X        | X        | X        | X        |
| 3. Ink, Drawing, Waterproof, Yellow | TT-I-531                             | X                        | X        | X        | X        | X        |
| 4. Ink, Laundry, Black              | TT-I-542                             | X                        | X        |          |          |          |
| 5. Soap Solution                    |                                      | X                        | X        | X        | X        | X        |

Continued

Figure 24. Example of Consumable Maintenance Material List Card for Aircrew Life Support Systems or QECA PMRM's.

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|                   |  |                             |   |  |  |  |  |  |
|-------------------|--|-----------------------------|---|--|--|--|--|--|
| <b>CARD</b><br>ix | A1-C3AAA-MRC-400<br><b>DATE</b> 1 January 1982 | <b>CHANGE</b><br><b>NO.</b> | <b>CONSUMABLE MAINTENANCE MATERIAL LIST</b> |  |  |  |  |  |
|-------------------|--|-----------------------------|---|--|--|--|--|--|

**CONSUMABLE MAINTENANCE MATERIAL LIST**

The following consumable maintenance materials are necessary to accomplish the requirements contained in this manual.

| <u>Nomenclature</u>                                | <u>Part No. Type or Specification No.</u> | <u>Required by Phase(s)</u> |          |          |          |          |          |
|--|---|-----------------------------|----------|----------|----------|----------|----------|
|  |   | <u>A</u>                    | <u>B</u> | <u>C</u> | <u>D</u> | <u>E</u> | <u>F</u> |
| 1. Barrier Material, Greaseproofed, Waterproofed   | MIL-B-121                                 | X                           | X        | X        | X        | X        | X        |
| 2. Cloth, Disposable                               | -   | X                           | X        | X        | X        | X        | X        |
| 3. Compound, Corrosion Preventive                  | MIL-C-16173 Grade 1                       | X                           | X        | X        | X        | X        | X        |
| 4. Compound, Corrosion Preventive                  | MIL-C-16173 Grade 4                       | X                           | X        | X        | X        | X        | X        |
| 5. Compound, Corrosion Preventive Engine           | MIL-C-6529 Type III                       | X                           |          | X        |          | X        |          |
| 6. Compound, Sealing                               | MIL-S-8802 Class B                        | X                           | X        | X        | X        | X        | X        |
| 7. Fluid, Hydraulic                                | MIL-H-83282                               | X                           |          | X        |          | X        |          |
| 8. Grease, General Purpose, Wide Temperature Range | MIL-G-81322                               | X                           | X        | X        | X        | X        | X        |
| 9. Lockwire  | MS20995C20                                | X                           | X        | X        | X        | X        | X        |
| 10. Lockwire                                       | MS20995C32                                | X                           | X        | X        | X        | X        | X        |

Continued

Figure 25. Example of Consumable Maintenance Material List Card for Aircraft Phased Maintenance Requirements Manual.

|                     |  |                             |   |  |  |  |  |  |
|---------------------|--|-----------------------------|---|--|--|--|--|--|
| <b>CARD</b><br>viii | AG-320AO-MRC-020<br><b>DATE</b> 1 January 1983 | <b>CHANGE</b><br><b>NO.</b> | <b>CONSUMABLE MAINTENANCE MATERIAL LIST</b> |  |  |  |  |  |
|---------------------|--|-----------------------------|---|--|--|--|--|--|

**CONSUMABLE MAINTENANCE MATERIAL LIST**

The following consumable maintenance materials are necessary to accomplish the requirements contained in this manual.

| <u>Nomenclature</u>          | <u>Part No. Type or Specification No.</u> |
|------------------------------|---|
| 1. Fluid, Brake              | SAE 7 or 3                                |
| 2. Fluid, Hydraulic          | MIL-H-83282                               |
| 3. Grease, Automotive        | MIL-G-10944                               |
| 4. Grease, General Purpose   | MIL-G-81322                               |
| 5. Oil, Lubricating          | MIL-L-7870                                |
| 6. Water, Distilled, Battery | -   |

Continued

Figure 26. Example of Consumable Maintenance Material List Card for Support Equipment PMRM's.

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|             |  |               |                                   |
|-------------|--|---------------|-----------------------------------|
| CARD<br>vii | NAVAIR 13-600-10-6-3<br>DATE 30 May 1986 | CHANGE<br>NO. | SPECIAL MISSION AIRCREW EQUIPMENT |
|-------------|--|---------------|-----------------------------------|

REPLACEMENT PARTS LIST

The following replacement parts are necessary to accomplish the requirements contained in this manual.

| Nomenclature | Part No, Type or<br>Specification No | Quantity Required |
|--------------|--------------------------------------|-------------------|
| NONE         |                                      |                   |

Continued

Figure 27. Example of Replacement Parts List Card for Aircrew Life Support Systems or PMRM's.

|            |   |               |                        |  |  |  |  |  |
|------------|---|---------------|------------------------|--|--|--|--|--|
| CARD<br>xv | A1-C3AAA-MRC-400<br>DATE 1 January 1982 | CHANGE<br>NO. | REPLACEMENT PARTS LIST |  |  |  |  |  |
|------------|---|---------------|------------------------|--|--|--|--|--|

REPLACEMENT PARTS LIST

The following replacement parts are necessary to accomplish the requirements contained in this manual.

|     | Nomenclature                          | Part No, Type or<br>Specification No | Quantity Required |   |   |   |   |   |
|-----|---------------------------------------|--------------------------------------|-------------------|---|---|---|---|---|
|     |                                       |                                      | A                 | B | C | D | E | F |
| 1.  | Element, Filter, (Emergency Handpump) | AN6235-1A                            | 2                 |   | 2 |   | 2 |   |
| 2.  | Element, Filter (Main Hydraulic)      | AN6235-4A                            |                   | 2 |   | 2 |   | 2 |
| 3.  | Element, Filter (Res Vent)            | AN6237-1                             | 1                 |   | 1 |   | 1 |   |
| 4.  | Gasket, Front Sump Strainer           | 23D63                                | 2                 | 2 | 2 | 2 | 2 | 2 |
| 5.  | Gasket, Oil Strainer                  | 149108                               | 2                 | 2 | 2 | 2 | 2 | 2 |
| 6.  | Gasket, Rear Sump Strainer            | 23D51                                | 2                 | 2 | 2 | 2 | 2 | 2 |
| 7.  | Gasket, Rocker Box Strainer           | 23D52                                | 2                 | 2 | 2 | 2 | 2 | 2 |
| 8.  | Nuts, Castellated, Self-locking       | MS17825-5                            | 4                 | 4 | 4 | 4 | 4 | 4 |
| 9.  | Packing, "O" Ring                     | AN6227B19                            | 2                 |   | 2 |   |   | 2 |
| 10. | Packing, "O" Ring                     | AN6227B20                            |                   | 2 |   | 2 |   | 2 |
| 11. | Packing, "O" Ring                     | MS28775-015                          | 2                 |   | 2 |   | 2 |   |
| 12. | Packing, "O" Ring                     | MS29513-018                          |                   | 2 |   | 2 |   | 2 |

Continued

Figure 28. Example of Replacement Parts List for Phased Maintenance Requirements Manual.

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|            |   |               |                        |
|------------|---|---------------|------------------------|
| CARD<br>ix | AG-320AO-MRC-020<br>DATE 1 January 1983 | CHANGE<br>NO. | REPLACEMENT PARTS LIST |
|------------|---|---------------|------------------------|

REPLACEMENT PARTS LIST

The following replacement parts are necessary to accomplish the requirements contained in this manual.

| Nomenclature                   | Part No, Type or<br>Specification No | Quantity<br>Required |
|--------------------------------|--------------------------------------|----------------------|
| 1. Bearing, Cone               | 25577                                | 2                    |
| 2. Bearing, Cup                | 25520                                | 2                    |
| 3. Element, Filter (Emergency) | AN-6235-1A                           | 1                    |
| 4. Element, Filter (Main)      | AN-6235-4A                           | 1                    |
| 5. Gasket, Filter (Main)       | 25565                                | 1                    |

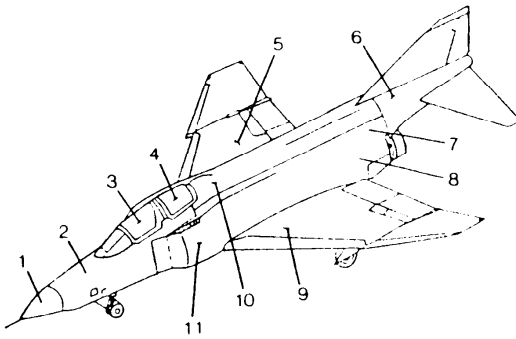
Continued

Figure 29. Example of Replacement Parts List Card for Support Equipment PMRM's.

|            |                          |               |                     |
|------------|--------------------------|---------------|---------------------|
| CARD<br>xx | A1-C3AAA-MRC-400<br>DATE | CHANGE<br>NO. | WORK AREAS OR ZONES |
|------------|--------------------------|---------------|---------------------|

WORK AREAS

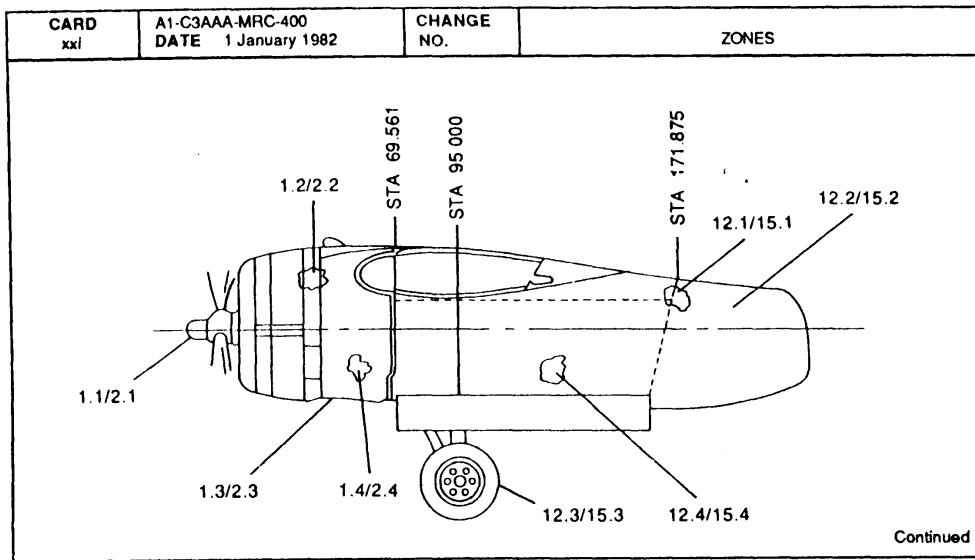
1. Radome & Radar Compartment
2. Fwd Fuselage
3. Fwd Cockpit
4. Aft Cockpit
5. Upper RH Wing
6. Aft Fuselage & Empennage
7. RH Engine
8. LH Engine
9. Upper LH Wing
10. Center Fuselage
11. LH Intake Duct & Cavity



Continued

Figure 30. Example of Work Area or Zone Cards.

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Figure 31. Example of Zones Card.

|              |   |               |                            |
|--------------|---|---------------|----------------------------|
| CARD<br>xxii | A1-C3AAA-MRC-400<br>DATE 1 January 1982 | CHANGE<br>NO. | ZONE TITLE AND DESCRIPTION |
|--------------|---|---------------|----------------------------|

ZONES

A work area or zone is a general area, such as "RH Outer Wing" or "Pilot Compartment." Each work area or zone is assigned a prime number in accordance with the aircraft structural manual. Work areas and zones are divided into smaller areas to facilitate the accomplishment of Zonal Inspections. These smaller areas are zones within the prime number work area or zone and are assigned a decimal suffix of the prime number.

ZONE TITLE AND DESCRIPTION

|  |                            |   |
|--|----------------------------|---|
| 1. LEFT HAND POWER PLANT AND FORWARD NACELLE |                            |   |
| 1.1  | Propeller (External)       | Comprises the external surface of the propeller, hub and aft to brush pad bracket.  |
| 1.2  | OECA (Internal)            | Comprises the basic engine and all associated accessories making up the OECK located forward of the firewall at station 69.561.       |
| 1.3  | Forward Nacelle (External) | Comprises the exterior of nacelle forward of firewall at station 69.561 and includes all power section and accessory section cowling. |

Continued

Figure 32. Example of Zone Title and Description Card.

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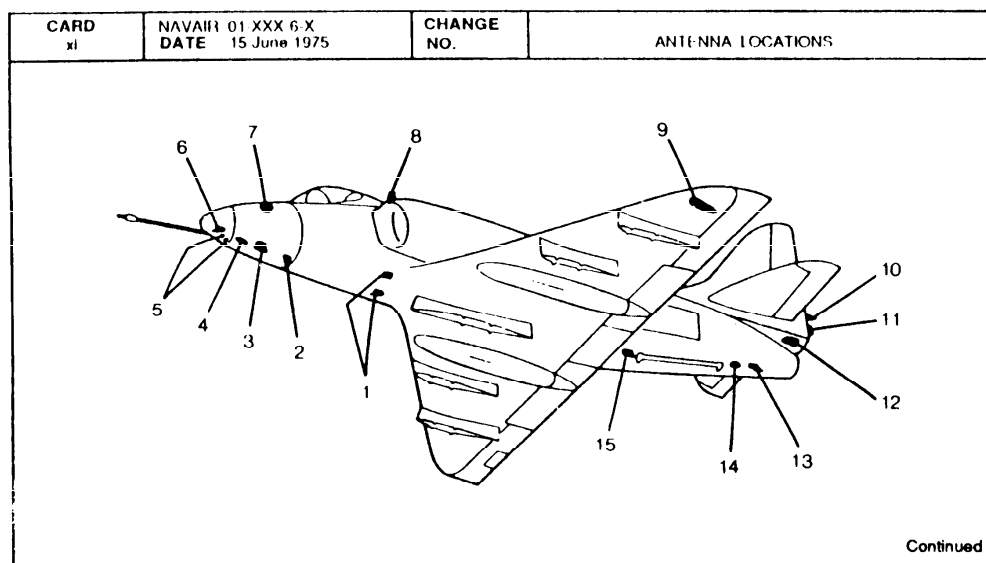
|  |   |              |                           |
|--|---|--------------|---------------------------|
| CARD<br>xxxv   | A1-C3AAA-MRC-400<br>DATE 1 January 1982 | CHANGE<br>NO | ZONAL INSPECTION CRITERIA |
| <p align="center"><b>ZONAL INSPECTION DEFINITION</b></p> <p>A zonal inspection is a general inspection of a specific area of the aircraft or support equipment where an existing scheduled inspection is being accomplished. These inspections are for obvious defects, such as leaks, frayed cables, cracks, corrosion or physical damage and does not require disassembly, special tools or test equipment. Zonal inspections are performed in conjunction with other scheduled maintenance tasks by the rating assigned. For example, an AQ assigned to perform an inspection on a radar antenna might also be assigned a zonal inspection of the entire compartment for obvious defects. One person, regardless of rate, will perform this inspection.</p> <p align="center"><b>ZONAL INSPECTION CRITERIA</b></p> <p>GENERAL - Cracks, corrosion, deterioration, deformation, interference, overheating, leaks, broken or missing parts, improper bonding.</p> <p>STRUCTURE - Loose or missing fasteners, deteriorated seals or sealant, fiberglass delamination.</p> <p>WINDSHIELDS AND WINDOWS - Cracks, crazing, scratches, delamination.</p> <p>CONTROL CABLES AND FLEXIBLE SHAFTS - Worn, frayed, chafed, improper alignment.</p> <p>TUBING AND HOSES - Chafing, misalignment.</p> <p>WIRING AND WIRING COMPONENTS - Kinking, fraying, deterioration, overheating.</p> <p align="right">Continued</p> |   |              |                           |

Figure 33. Example of Zonal Inspection Criteria Card.

|   |  |              |                         |
|---|--|--------------|-------------------------|
| CARD<br>xxvii   | NAVAIR 01-XXX-6.3<br>DATE 15 June 1975 | CHANGE<br>NO | ACCESS PANELS AND DOORS |
| <p><b>LH VIEW</b></p> <p>3 Electronic Equipment, LH<br/>4 APX 64 Coder<br/>6L Canopy Hinge, LH<br/>8L Upper Engine Accessory Compartment, LH<br/>9 Brake Reservoir<br/>12L Engine Access, LH<br/>16 Refrigeration Ducting<br/>18 Canopy External Control<br/>46L Fuselage Keel Splice Bolts, LH</p> |  |              |                         |

Figure 34. Example of Access Panel Illustration Card.

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Figure 35. Example of Antenna Location Illustration Card.

|                    |   |                      |                          |
|--------------------|---|----------------------|--------------------------|
| <b>CARD</b><br>xii | NAVAIR 01-XXX-6-X<br><b>DATE</b> 15 June 1975 | <b>CHANGE</b><br>NO. | <b>ANTENNA LOCATIONS</b> |
|--------------------|---|----------------------|--------------------------|

| ANTENNA LOCATION |                                       |
|------------------|---------------------------------------|
| 1.               | AN/ALQ-51/-100 (Fwd DECM)             |
| 2.               | AN/ARN-52 (Fwd Tacan)                 |
| 3.               | AN/ARN-48 (UHF/ADF)                   |
| 4.               | AN/APN-153 (Doppler)                  |
| 5.               | AN/APR-25 (Fwd ECM)                   |
| 6.               | AN/ALQ-51 (Fwd DECM)                  |
| 7.               | AN/APX-64 Fwd IFF                     |
| 8.               | AN/ARC-51A (UHF Comm)                 |
| 9.               | AN/APN-141A (Radar Altimeter Fairing) |
| 10.              | AN/ALQ-51/-100 (Alt DECM)             |
| 11.              | AN/ARN-52 (Alt Tacan)                 |
| 12.              | AN/APR-25 (Alt ECM-2 ea.)             |
| 13.              | AN/ALQ-51/-100 (Alt DECM)             |
| 14.              | AN/APX-64 (Alt IFF)                   |
| 15.              | AN/ALQ-51/-100 (Alt DEC!?)            |

Figure 35. Example of Antenna Location Illustration Card. - Continued



## MIL-M-23618G(AS)

| A1-C3AAA-MRC-100   |                |
|--|----------------|
| <b>WARNING:</b> Ensure area is free of foreign objects.  |                |
| 1. Items properly positioned   |                |
| a. Fire Extinguisher   | Available      |
| b. MLG Ground Safety Lock (2)  | Remove/Install |
| c. NLG Ground Safety Lock  | Remove/Install |
| d. Battery/Magneto Switches  | Off            |
| e. Landing Gear Handle to DETENT   | Down           |
| f. Parking Brake   | Set            |
| g. Protective Covers   | Remove/Install |
| h. Wing Jury Struts  | Remove/Install |
| <b>WARNING:</b> Walkways must be used when working on top of aircraft.   |                |
| <b>NOTE:</b> Fuel sampling shall be accomplished prior to the first flight of the day and on each turnaround after refueling. Allow fuel to settle for at least 30 minutes after refueling before taking samples. Ensure all low point drain valves reseal after drawing fuel samples. |                |
| 2. Fuel for contamination  |                |
| a. Samples from following sump drains:   |                |
| (1) LHRH Main fuel strainer.   |                |
| (2) LHRH Wing center section drains.   |                |
| b. Drain LH/RH Defueling Valve to expel any trapped water.   |                |
| 3. Pilot Compartment   |                |
| a. Compartment   | Clean          |
| b. Windshield/Windows  | Cracks/Clean   |
| c. Shoulder Harness/Lap Belts  | Stowage        |
| d. Escape Hatches  | Operation      |

Figure 36. Example of Checklist Task Page.

| CARD<br>B-xxxii |     | A1-C3AAA-MRC-400<br>DATE 1 January 1982                  | CHANGE<br>NO. | PHASE SEQUENCE CONTROL |  |  |  |   |  |  |  |   |   |   |   |   |    |    |   |    |   |    |    |   |    |   |
|-----------------|-----|--|---------------|------------------------|--|--|--|---|--|--|--|---|---|---|---|---|----|----|---|----|---|----|----|---|----|---|
| RATE            | NO. | PREPHASE   | HOURS         | 1                      |  |  |  | 2 |  |  |  | 3 |   |   |   | 4 |    |    |   |    |   |    |    |   |    |   |
| AD              | 1   | ACCOMPLISH<br>PREPHASE<br>CARDS<br>1, 2, 3, 30<br>AND 48 |               |                        |  |  |  |   |  |  |  |   | ( | 4 | X | 5 | X  | 6  | X | 9  | ) |    |    |   |    |   |
| AD              | 2   |  |               |                        |  |  |  |   |  |  |  |   |   | ( | 4 | X | 5  | X  | 6 | X  | 9 | )  |    |   |    |   |
| AD              | 3   |  |               |                        |  |  |  |   |  |  |  |   |   |   | ( | 7 | X  | 8  | X | 10 | X | 11 | )  |   |    |   |
| AD              | 4   |  |               |                        |  |  |  |   |  |  |  |   |   |   | ( | 7 | X  | 8  | X | 10 | X | 11 | )  |   |    |   |
| AE              | 1   |  |               |                        |  |  |  |   |  |  |  |   |   |   | ( | 7 | X  | 23 | ) |    |   |    |    |   |    |   |
| AE              | 2   |  |               |                        |  |  |  |   |  |  |  |   |   |   | ( |   | 31 | )  |   |    |   |    |    |   |    |   |
| AME             | 1   |  |               |                        |  |  |  |   |  |  |  |   |   |   | ( |   | 31 | )  |   |    |   |    |    |   |    |   |
| AMH             | 1   |  |               |                        |  |  |  |   |  |  |  |   |   |   | ( |   | 31 | )  | ( | 35 | ) | (  | 33 | ) |    |   |
| AMH             | 2   |  |               |                        |  |  |  |   |  |  |  |   |   |   | ( |   | 31 | )  |   |    | ( | 34 | )  | ( | 36 | ) |
| AMS             | 1   |  |               |                        |  |  |  |   |  |  |  |   |   |   | ( |   | 31 | )  |   |    | ( | 36 | )  | ( | 37 | ) |
| AMS             | 2   |  |               |                        |  |  |  |   |  |  |  |   |   |   | ( |   | 31 | )  |   |    | ( | 35 | )  | ( | 34 | ) |
| QA              | 1   |  |               |                        |  |  |  |   |  |  |  |   |   |   | ( |   | 55 | )  |   |    | ( | 58 | )  | ( | 57 | ) |
| ELEC            | PWR |  |               |                        |  |  |  |   |  |  |  |   |   |   | ( |   | ON | )  |   |    | ( |    |    |   |    |   |
| HYD             | PWR |  |               |                        |  |  |  |   |  |  |  |   |   |   | ( |   | ON | )  |   |    | ( |    |    |   |    |   |

Continued

Figure 37. Example of Phase Sequence Control Card.

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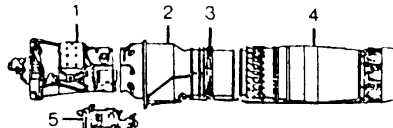
| CARD<br>ix  | NAVAIR 02B-XXX-6-3<br>DATE 15 June 1975  | CHANGE<br>NO                                      | WORK AREA/ZONE<br>SEQUENCE CONTROL CARD |
|---|--|---|---|
| 1. Inlet/Compressor<br>2. Diffuser/Combustion<br>3. Turbine/Exhaust<br>4. Afterburner<br>5. Accessory |  |   |   |
|   | HOURS  | 1   | 2                                       |
| J52-P6A, 6B<br>TA-4F/J  | ADJ 1  | ( 1 )   | ( 2 ) ( 3 )                             |
|   | ADJ 2  | ( 7 ) ( 101 )                                     | ( 8 ) ( 3 )                             |
|   | ADJ 3  | ( 10 ) ( 102 )                                    | ( 11 ) ( 12 )                           |
|   | ADJ 4  | ( 17 ) ( 18 ) ( 19 ) ( 20 ) ( 21 ) ( 22 ) ( 104 ) |   |
|   | QA 1   |   |   |
| J52-P8A, 8B<br>A-4E/A-4F,<br>TA-4F  | ADJ 1  | ( 1 )   | ( 2 ) ( 3 )                             |
|   | ADJ 2  | ( 7 ) ( 201 ) ( 202 )                             | ( 8 ) ( 3 )                             |
|   | ADJ 3  | ( 10 ) ( 203 )                                    | ( 11 ) ( 12 )                           |
|   | ADJ 4  | ( 17 ) ( 18 ) ( 19 ) ( 20 ) ( 21 ) ( 22 ) ( 204 ) |   |
|   | QA 1   | (206)   |   |
|   |  |   | End of Card                             |

Figure 38. Example of Quick Engine Change Assembly (QECA) Sequence Control Card.

| CARD<br>A-16.1    | A1-C3AAA-MRC-400<br>DATE 1 January 1982 | CHANGE<br>NO.   | PHASE A           | ELEC PWR OFF       |
|-------------------|---|---|-------------------|--------------------|
| WORK<br>AREA/ZONE | C<br>R<br>S<br>S<br>N                   | TIME<br>RTG AD<br>NO. 1   | MOS 61XX<br>NO. 1 | MAIN FUEL STRAINER |
|                   |   |   |                   | COND AIR OFF       |
| 1.4               |   | <p><b>WARNING:</b> Dry cleaning solvent is combustible. Do not use near open flames, welding areas or on hot surfaces. Prolonged contact on skin with liquid can cause dermatitis. Repeated inhalation of vapor can irritate nose and throat, and can cause dizziness. If any liquid contacts skin or eyes, immediately flush affected area with water. Remove solvent saturated clothing. If vapor causes dizziness go to fresh air. When handling liquid or when applying it in an air exhausted, partially covered tank, wear approved gloves. When handling liquid or applying it in an unexhausted, uncovered tank or workbench, wear approved respirator and gloves.</p> <p>f. Clean screen assembly with solvent and dry with low pressure air.</p> <p>NOTE: Use mirror and light to perform following inspection.</p> |                   |                    |
| 1.4               | C                                       | <p>2. Screen and housing assembly:</p> <ul style="list-style-type: none"> <li>a. Blocked wire mesh.</li> <li>b. Cracks and corrosion.</li> <li>c. Damaged threads.</li> </ul> <p>NOTE: QA Card (A-42) required after accomplishment of Task 3.</p> <p style="text-align: right;">Continued</p>  |                   |                    |

Figure 39. Example of Task Card.

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| CARD<br>A-16.2   | A1-C3AAA-MRC-400<br>DATE 1 January 1982 | CHANGE<br>NO. | PHASE A         | ELEC PWR OFF       |
|--|---|---------------|-----------------|--------------------|
| WORK<br>AREA/ZONE  | C<br>R<br>S<br>N                        | TIME          | RTG AD<br>NO. 1 | MOS 61XX<br>NO. 1  |
| 1.4  |   |               |                 | MAIN FUEL STRAINER |
| 2.4  |   |               |                 |                    |
| 3. Screen and housing assembly installation:<br>a. Install new "O" ring.<br>b. Assemble filter assembly.<br>c. Tighten cover assembly wing nut (finger tight).<br>d. Lockwire wing nut.<br><br>4. Repeat Tasks 1 through 3 for RH fuel strainer. |   |               |                 |                    |
| Continued  |   |               |                 |                    |

Figure 39. Example of Task Card. - Continued

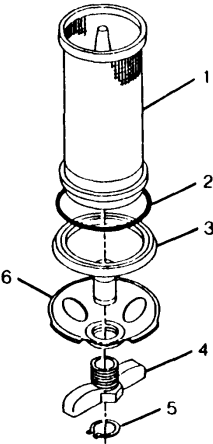
| CARD<br>A-16.2  | A1-C3AAA-MRC-400<br>DATE 1 January 1982 | CHANGE<br>NO. | MAIN FUEL STRAINER |
|---|---|---------------|--------------------|
| 1. SCREEN ASSEMBLY<br>2. 'O' RING<br>3. COVER ASSEMBLY<br>4. WING NUT ASSEMBLY<br>5. RETAINING RING<br>6. COVER ASSEMBLY LOCK |   |               |                    |
|   |   |               |                    |
| End of Card<br>(Card A-16.3 Blank)  |   |               |                    |

Figure 40. Example of Task Card (Illustration).

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| CARD<br>4             | NAVAIR 19-600-94-6-2<br>DATE 1 December 1984   | CHANGE<br>NO.    | 100 HOUR          | ELEC PWR OFF               |                     |                               |                 |         |                 |         |                 |         |                  |             |  |                   |  |                   |                       |                 |
|-----------------------|--|------------------|-------------------|----------------------------|---------------------|-------------------------------|-----------------|---------|-----------------|---------|-----------------|---------|------------------|-------------|--|-------------------|--|-------------------|-----------------------|-----------------|
| WORK<br>AREA/ZONE     | TIME<br>1.8  | RTG ASM<br>NO. 1 | MOS 6072<br>NO. 1 | POWER PLANT AND COMPONENTS |                     |                               |                 |         |                 |         |                 |         |                  |             |  |                   |  |                   |                       |                 |
|                       |  |                  |                   | COND AIR N/A               |                     |                               |                 |         |                 |         |                 |         |                  |             |  |                   |  |                   |                       |                 |
|                       | <p>SPECIAL TOOLS/SUPPORT EQUIPMENT</p> <p>Container (2 quart)</p> <p>Wrench, Torque (0-100 ft lb)</p> <p>CONSUMABLES/REPLACEMENT PARTS</p> <table border="0"> <thead> <tr> <th><u>Nomenclature</u></th> <th><u>Part No./Specification</u></th> </tr> </thead> <tbody> <tr> <td>Element, Filter</td> <td>5574961</td> </tr> <tr> <td>Element, Filter</td> <td>5573261</td> </tr> <tr> <td>Element, Filter</td> <td>5573014</td> </tr> <tr> <td>Oil, Lubrication</td> <td>MIL-L-2104C</td> </tr> <tr> <td></td> <td>1st choice Gr. 40</td> </tr> <tr> <td></td> <td>2nd choice Gr. 30</td> </tr> <tr> <td>Solvent, Dry Cleaning</td> <td>P-D-680 Type II</td> </tr> </tbody> </table> <p>1 <u>WARNING</u> 1 Dry cleaning solvent is combustible. Do not use near open flames, welding areas or on hot surfaces. Prolonged contact on skin with liquid can cause dermatitis. Repeated inhalation of vapor can irritate nose and throat and can cause dizziness. If any liquid contacts skin or eyes, immediately flush affected areas with water. Remove solvent saturated clothing. If vapor causes dizziness go to fresh air. When handling liquid or applying it in an air exhausted partially covered tank, wear approved gloves. When handling liquid or applying it at unexhausted, uncovered tank or workbench, wear approved respirator and gloves.</p> <p style="text-align: right;">Continued</p> |                  |                   |                            | <u>Nomenclature</u> | <u>Part No./Specification</u> | Element, Filter | 5574961 | Element, Filter | 5573261 | Element, Filter | 5573014 | Oil, Lubrication | MIL-L-2104C |  | 1st choice Gr. 40 |  | 2nd choice Gr. 30 | Solvent, Dry Cleaning | P-D-680 Type II |
| <u>Nomenclature</u>   | <u>Part No./Specification</u>  |                  |                   |                            |                     |                               |                 |         |                 |         |                 |         |                  |             |  |                   |  |                   |                       |                 |
| Element, Filter       | 5574961  |                  |                   |                            |                     |                               |                 |         |                 |         |                 |         |                  |             |  |                   |  |                   |                       |                 |
| Element, Filter       | 5573261  |                  |                   |                            |                     |                               |                 |         |                 |         |                 |         |                  |             |  |                   |  |                   |                       |                 |
| Element, Filter       | 5573014  |                  |                   |                            |                     |                               |                 |         |                 |         |                 |         |                  |             |  |                   |  |                   |                       |                 |
| Oil, Lubrication      | MIL-L-2104C  |                  |                   |                            |                     |                               |                 |         |                 |         |                 |         |                  |             |  |                   |  |                   |                       |                 |
|                       | 1st choice Gr. 40  |                  |                   |                            |                     |                               |                 |         |                 |         |                 |         |                  |             |  |                   |  |                   |                       |                 |
|                       | 2nd choice Gr. 30  |                  |                   |                            |                     |                               |                 |         |                 |         |                 |         |                  |             |  |                   |  |                   |                       |                 |
| Solvent, Dry Cleaning | P-D-680 Type II  |                  |                   |                            |                     |                               |                 |         |                 |         |                 |         |                  |             |  |                   |  |                   |                       |                 |

Figure 41. Example of Repetitive Warnings for Hazardous Materials Card.

|                   |  |   |                   |                                |
|-------------------|--|---|-------------------|--------------------------------|
| CARD<br>4.1       | NAVAIR 19-600-94-6-2<br>DATE 1 December 1984 | CHANGE<br>NO.   | 100 HOUR          | ELEC PWR OFF                   |
| WORK<br>AREA/ZONE | TIME   | RTG AD<br>NO. 1   | MOS 61XX<br>NO. 1 | POWER PLANT COMPONENTS AND LUB |
|                   |  |   |                   | COND AIR N/A                   |
| 2                 |  | <p>1. Primary Fuel Filter:</p> <p>a. Remove housing and filter element; clean housing with solvent and air dry.</p> <p>b. Install new filter element P/N 5574961 in housing and assemble.</p>   |                   |                                |
| 2                 |  | <p>2. Secondary Fuel Filter:</p> <p>1 <u>WARNING</u> 1 Dry cleaning solvent is a hazardous substance. Avoid skin contact. Avoid breathing vapors. See 1 <u>WARNING</u> 1 on Card 4.</p> <p>a. Remove housing and filter element; clean housing with solvent and air dry.</p> <p>Install new filter element P/N 5573261 in housing and assemble.</p> |                   |                                |
| 3                 |  | <p>3. Open fuel tank drain valve and drain approximately 1 quart of fuel into container; sample for accumulation of water and sediment.</p>   |                   |                                |
| 4                 |  | <p>4. Oil Filter:</p> <p>1 <u>WARNING</u> 1 Dry cleaning solvent is a hazardous substance. Avoid skin contact. Avoid breathing vapors. See 1 <u>WARNING</u> 1 on Card 4.</p> <p>a. Remove housing and filter element; clean housing with solvent and air dry.</p> <p>b. Install new filter element P/N 5573014 in housing and assemble.</p>         |                   |                                |
| 4                 |  | <p>5. Drain engine crankcase oil; service with MIL-L-2104C.</p> <p style="text-align: right;">Continued</p>   |                   |                                |

Figure 41. Example of Repetitive Warnings for Hazardous Materials Card. - Continued

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|                   |   |   |                       |              |
|-------------------|---|---|-----------------------|--------------|
| CARD<br>53        | NAVAIR 01-XXX-6-2<br>DATE 15 January 1977 | CHANGE<br>NO.   | POSTLAUNCH            | ELEC PWR ON  |
| WORK<br>AREA/ZONE | C<br>R<br>S<br>N                          | TIME<br>0.6   | RTG AD<br>NO. 1       | MOS<br>NO.   |
|                   |   |   | COMBINED SYSTEMS TEST | COND AIR N/A |
| 7<br>2, 3, 9      |   | <p align="center">Assist AD #1, Card 42</p> <ol style="list-style-type: none"> <li>When directed by AD #1, turn external power ON:             <ol style="list-style-type: none"> <li>Command remote control channel 5; AD #1 should acknowledge increase reaction.</li> <li>Command remote control channel 7; AD #1 should acknowledge decrease reaction. Continue command until AD #1 indicates actuator has contacted stops.</li> </ol> </li> <li>When directed by AD #1, remove safety lanyard and umbilical from target.</li> <li>During remote control checks, monitor control surface reaction, indicating direction of travel by hand signals to AD #1.             <ol style="list-style-type: none"> <li>Aileron deflection, LH and RH.</li> <li>Elevator deflection, up and down.</li> <li>Rudder trim, LH and RH.</li> </ol> </li> </ol> <p align="right">End of Card<br/>(Card 53.1 Blank)</p> |                       |              |

Figure 42. Example of Assist Card.

| CARD<br>27.1      | A1-C3AAA-MRC-300<br>DATE 1 January 1982              | CHANGE<br>NO.   | SPECIAL 14 DAY                | ELEC PWR OFF      |      |              |              |               |    |             |   |             |    |                      |   |             |    |                      |   |             |    |        |   |             |    |                  |   |             |    |                        |   |             |    |                  |   |             |    |     |   |             |    |        |   |             |     |                   |   |          |     |  |   |             |
|-------------------|--|---|-------------------------------|-------------------|------|--------------|--------------|---------------|----|-------------|---|-------------|----|----------------------|---|-------------|----|----------------------|---|-------------|----|--------|---|-------------|----|------------------|---|-------------|----|------------------------|---|-------------|----|------------------|---|-------------|----|-----|---|-------------|----|--------|---|-------------|-----|-------------------|---|----------|-----|--|---|-------------|
| WORK<br>AREA/ZONE | C<br>R<br>S<br>N                                     | TIME  | RTG AMAH<br>NO. 1             | MOS 60XX<br>NO. 1 |      |              |              |               |    |             |   |             |    |                      |   |             |    |                      |   |             |    |        |   |             |    |                  |   |             |    |                        |   |             |    |                  |   |             |    |     |   |             |    |        |   |             |     |                   |   |          |     |  |   |             |
|                   |  |   | MAIN LANDING GEAR LUBRICATION | COND AIR OFF      |      |              |              |               |    |             |   |             |    |                      |   |             |    |                      |   |             |    |        |   |             |    |                  |   |             |    |                        |   |             |    |                  |   |             |    |     |   |             |    |        |   |             |     |                   |   |          |     |  |   |             |
| 3                 |  | <ol style="list-style-type: none"> <li>Lubricate main landing gear as follows:             <table border="1"> <thead> <tr> <th>Item</th> <th>Nomenclature</th> <th>No of Points</th> <th>Specification</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Shock Strut</td> <td>2</td> <td>MIL-G-81322</td> </tr> <tr> <td>2.</td> <td>Drag Brace Lower End</td> <td>1</td> <td>MIL-G-81322</td> </tr> </tbody> </table> <p>NOTE: L/R grease fitting cover removal required for access.</p> <table border="1"> <tbody> <tr> <td>3.</td> <td>Drag Brace Upper End</td> <td>2</td> <td>MIL-G-81322</td> </tr> <tr> <td>4.</td> <td>Collar</td> <td>2</td> <td>MIL-G-81322</td> </tr> <tr> <td>5.</td> <td>Upper Torque Arm</td> <td>1</td> <td>MIL-G-81322</td> </tr> <tr> <td>6.</td> <td>Holdback Attach Points</td> <td>2</td> <td>MIL-G-81322</td> </tr> <tr> <td>7.</td> <td>Lower Torque Arm</td> <td>4</td> <td>MIL-G-81322</td> </tr> <tr> <td>8.</td> <td>Bar</td> <td>1</td> <td>MIL-G-81322</td> </tr> <tr> <td>9.</td> <td>Collar</td> <td>2</td> <td>MIL-G-81322</td> </tr> <tr> <td>10.</td> <td>Tie-Down Fittings</td> <td>2</td> <td>VV-L-800</td> </tr> <tr> <td>11.</td> <td>Main Landing Gear Trunnion<br/>Fuselage Attach Points</td> <td>2</td> <td>MIL-G-81322</td> </tr> </tbody> </table> <p align="right">Continued</p> </li> </ol> |                               |                   | Item | Nomenclature | No of Points | Specification | 1. | Shock Strut | 2 | MIL-G-81322 | 2. | Drag Brace Lower End | 1 | MIL-G-81322 | 3. | Drag Brace Upper End | 2 | MIL-G-81322 | 4. | Collar | 2 | MIL-G-81322 | 5. | Upper Torque Arm | 1 | MIL-G-81322 | 6. | Holdback Attach Points | 2 | MIL-G-81322 | 7. | Lower Torque Arm | 4 | MIL-G-81322 | 8. | Bar | 1 | MIL-G-81322 | 9. | Collar | 2 | MIL-G-81322 | 10. | Tie-Down Fittings | 2 | VV-L-800 | 11. | Main Landing Gear Trunnion<br>Fuselage Attach Points | 2 | MIL-G-81322 |
| Item              | Nomenclature   | No of Points  | Specification                 |                   |      |              |              |               |    |             |   |             |    |                      |   |             |    |                      |   |             |    |        |   |             |    |                  |   |             |    |                        |   |             |    |                  |   |             |    |     |   |             |    |        |   |             |     |                   |   |          |     |  |   |             |
| 1.                | Shock Strut  | 2   | MIL-G-81322                   |                   |      |              |              |               |    |             |   |             |    |                      |   |             |    |                      |   |             |    |        |   |             |    |                  |   |             |    |                        |   |             |    |                  |   |             |    |     |   |             |    |        |   |             |     |                   |   |          |     |  |   |             |
| 2.                | Drag Brace Lower End                                 | 1   | MIL-G-81322                   |                   |      |              |              |               |    |             |   |             |    |                      |   |             |    |                      |   |             |    |        |   |             |    |                  |   |             |    |                        |   |             |    |                  |   |             |    |     |   |             |    |        |   |             |     |                   |   |          |     |  |   |             |
| 3.                | Drag Brace Upper End                                 | 2   | MIL-G-81322                   |                   |      |              |              |               |    |             |   |             |    |                      |   |             |    |                      |   |             |    |        |   |             |    |                  |   |             |    |                        |   |             |    |                  |   |             |    |     |   |             |    |        |   |             |     |                   |   |          |     |  |   |             |
| 4.                | Collar   | 2   | MIL-G-81322                   |                   |      |              |              |               |    |             |   |             |    |                      |   |             |    |                      |   |             |    |        |   |             |    |                  |   |             |    |                        |   |             |    |                  |   |             |    |     |   |             |    |        |   |             |     |                   |   |          |     |  |   |             |
| 5.                | Upper Torque Arm                                     | 1   | MIL-G-81322                   |                   |      |              |              |               |    |             |   |             |    |                      |   |             |    |                      |   |             |    |        |   |             |    |                  |   |             |    |                        |   |             |    |                  |   |             |    |     |   |             |    |        |   |             |     |                   |   |          |     |  |   |             |
| 6.                | Holdback Attach Points                               | 2   | MIL-G-81322                   |                   |      |              |              |               |    |             |   |             |    |                      |   |             |    |                      |   |             |    |        |   |             |    |                  |   |             |    |                        |   |             |    |                  |   |             |    |     |   |             |    |        |   |             |     |                   |   |          |     |  |   |             |
| 7.                | Lower Torque Arm                                     | 4   | MIL-G-81322                   |                   |      |              |              |               |    |             |   |             |    |                      |   |             |    |                      |   |             |    |        |   |             |    |                  |   |             |    |                        |   |             |    |                  |   |             |    |     |   |             |    |        |   |             |     |                   |   |          |     |  |   |             |
| 8.                | Bar  | 1   | MIL-G-81322                   |                   |      |              |              |               |    |             |   |             |    |                      |   |             |    |                      |   |             |    |        |   |             |    |                  |   |             |    |                        |   |             |    |                  |   |             |    |     |   |             |    |        |   |             |     |                   |   |          |     |  |   |             |
| 9.                | Collar   | 2   | MIL-G-81322                   |                   |      |              |              |               |    |             |   |             |    |                      |   |             |    |                      |   |             |    |        |   |             |    |                  |   |             |    |                        |   |             |    |                  |   |             |    |     |   |             |    |        |   |             |     |                   |   |          |     |  |   |             |
| 10.               | Tie-Down Fittings                                    | 2   | VV-L-800                      |                   |      |              |              |               |    |             |   |             |    |                      |   |             |    |                      |   |             |    |        |   |             |    |                  |   |             |    |                        |   |             |    |                  |   |             |    |     |   |             |    |        |   |             |     |                   |   |          |     |  |   |             |
| 11.               | Main Landing Gear Trunnion<br>Fuselage Attach Points | 2   | MIL-G-81322                   |                   |      |              |              |               |    |             |   |             |    |                      |   |             |    |                      |   |             |    |        |   |             |    |                  |   |             |    |                        |   |             |    |                  |   |             |    |     |   |             |    |        |   |             |     |                   |   |          |     |  |   |             |

Figure 43. Example of Lubrication Task Card.

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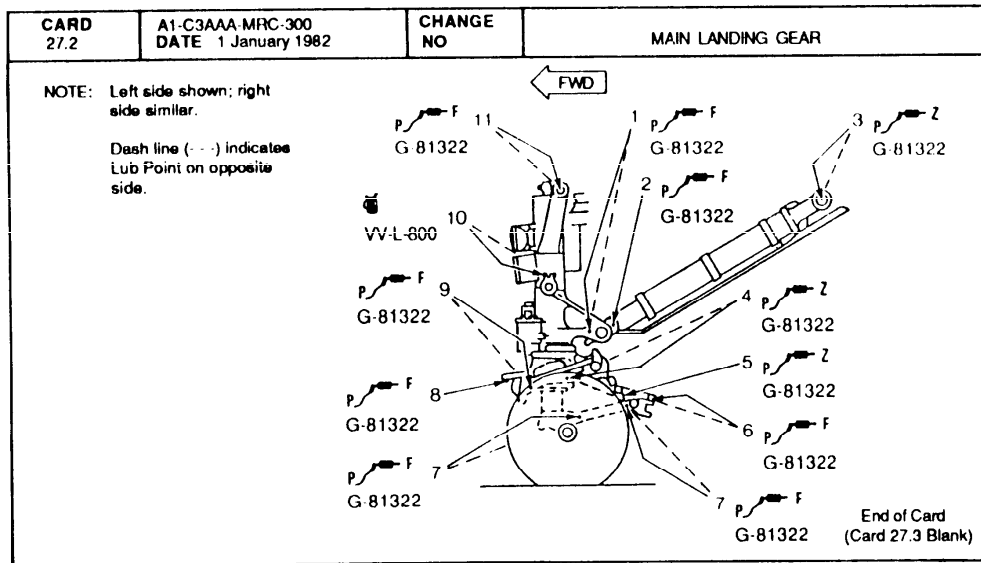


Figure 44. Example of Lubrication Illustration Card.

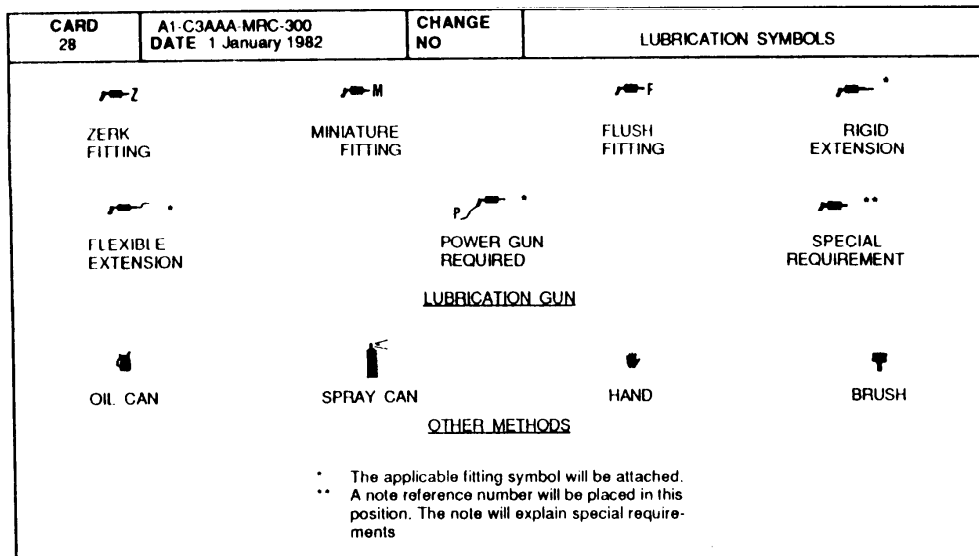


Figure 45. Example of Lubrication Symbols Card.

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|                   |   |  |              |           |            |                            |
|-------------------|---|--|--------------|-----------|------------|----------------------------|
| CARD<br>B-60      | A1-C3AAA-MRC-400<br>DATE 1 January 1984 | CHANGE<br>NO.  | PHASE B      |           |            | ELEC PWR N/A               |
| WORK<br>AREA/ZONE | C<br>R<br>S<br>N                        | TIME<br>0.1  | RTG<br>NO. 1 | QA<br>NO. | MOS<br>NO. | RUDDER TRIMMER LUBRICATION |
| 10.3              |   | NOTE: Refer to Task Card B-33.1, Step No. 3.<br>1. Rudder trimmer mechanism for lubrication, hydraulic leaks and component installation. |              |           |            |                            |

Final QA Inspection Card

|                   |   |   |                |           |            |                    |
|-------------------|---|---|----------------|-----------|------------|--------------------|
| CARD<br>31        | A1-C3AAA-MRC-300<br>DATE 1 January 1982 | CHANGE<br>NO.   | SPECIAL 91 DAY |           |            | ELEC PWR OFF       |
| WORK<br>AREA/ZONE | C<br>R<br>S<br>N                        | TIME<br>0.1   | RTG<br>NO. 1   | QA<br>NO. | MOS<br>NO. | FIRE EXTINGUISHERS |
| 12.4,<br>15.4     |   | NOTE: Refer to Task Card 30.1.<br>1. LH/RH fire extinguisher containers in main landing gear well:<br>a. Witness torque (500-700 in lbs) of line assembly elbow nut to reducer fitting.<br>b. Installation of flexible lines. |                |           |            |                    |

In-process QA Inspection Card

Figure 46. Example of Final and In-Process Quality Assurance Cards.

|   |  |  |            |            |                      |             |             |              |                               |    |                                |    |
|---|--|--|------------|------------|----------------------|-------------|-------------|--------------|-------------------------------|----|--------------------------------|----|
| CARD<br>20  | NAVAIR 01-XXX-6-3<br>DATE 1 January 1982 | CHANGE<br>NO.  | ASPA       |            |                      | ELEC PWR ON |             |              |                               |    |                                |    |
| WORK<br>AREA/ZONE   | C<br>R<br>S<br>N                         | TIME   | RTG<br>NO. | MOS<br>NO. | AIRCRAFT PREPARATION | HYD PWR ON  |             |              |                               |    |                                |    |
|   |  | SPECIAL TOOLS/SUPPORT EQUIPMENT REQUIRED<br>Power Source, Electric   |            |            |                      |             |             |              |                               |    |                                |    |
|   |  | CONSUMMABLES/REPLACEMENT PARTS<br>Compound, Cleaning, Alkaline Water Base MIL-C-25769<br>Compound, Corrosion Preventive MIL-C-81309 Class III, Type II   |            |            |                      |             |             |              |                               |    |                                |    |
| All<br>4, 9<br>4, 9<br>5<br>5<br>9<br>4, 5, 6, 7,<br>8, 9, 11 |  | 1. Wash aircraft; refer to Daily Special Card 19.<br>2. Spread wings; Refer to Daily Special Card 14.<br>3. Extend flaps and slats; refer to Daily Special Card 9.<br>4. Open forward engine bay doors; refer to Daily Special Card II<br>5. Remove canopy in accordance with NA 01-XXX-2-2-2.<br>6. Remove ejection seats in accordance with NA 01-XXX-2-2-2.<br>7. Open excess panel/doors as follows: |            |            |                      |             |             |              |                               |    |                                |    |
|   |  | <table border="0"> <tr> <td>Description</td> <td>Panel Number</td> </tr> <tr> <td>AC/DC power distribution door</td> <td>49</td> </tr> <tr> <td>Forward main landing gear door</td> <td>72</td> </tr> </table>   |            |            |                      |             | Description | Panel Number | AC/DC power distribution door | 49 | Forward main landing gear door | 72 |
| Description   | Panel Number                             |  |            |            |                      |             |             |              |                               |    |                                |    |
| AC/DC power distribution door                                 | 49                                       |  |            |            |                      |             |             |              |                               |    |                                |    |
| Forward main landing gear door                                | 72                                       |  |            |            |                      |             |             |              |                               |    |                                |    |

Continued

Figure 47. Example of Aircraft Service Period Adjustment (ASPA) Requirements Card for Aircraft Preparation.

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|                                |  |   |            |                      |              |             |              |                                |    |                               |    |
|--------------------------------|--|---|------------|----------------------|--------------|-------------|--------------|--------------------------------|----|-------------------------------|----|
| CARD<br>21                     | NAVAIR 01-XXX-6-3<br>DATE 1 January 1982 | CHANGE<br>NO.   | ASPA       |                      | ELEC PWR ON  |             |              |                                |    |                               |    |
| WORK<br>AREA/ZONE              | C<br>R<br>S<br>S<br>N                    | TIME  | RTG<br>NO. | MOS<br>NO.           | HYD PWR ON   |             |              |                                |    |                               |    |
|                                |  |   |            | AIRCRAFT RESTORATION | COND AIR OFF |             |              |                                |    |                               |    |
| 4, 5, 6, 7<br>8, 9, 11         |  | <p align="center"><b>SPECIAL TOOLS/SUPPORT EQUIPMENT REQUIRED</b></p> <p>Power Source, electric</p> <p>NOTE: QA (Card Number) shall witness tasks 1 through 5.</p> <p>1. Install and secure access panel/doors as follows:</p> <table border="0"> <tr> <td>Description</td> <td>Panel Number</td> </tr> <tr> <td>Forward main landing gear door</td> <td>72</td> </tr> <tr> <td>AC/DC power distribution door</td> <td>49</td> </tr> </table> <p>2. Install ejection seats in accordance with NA 01-XXX-2-2-2.</p> <p>3. Install canopy in accordance with NA 01-XXX-2-2-2.</p> <p>4. Close forward engine bay doors; refer to Daily Special Card 11.</p> <p>5. Retract slats and flaps; refer to Daily Special Card 9.</p> <p>6. Conduct Daily/Turnaround Inspections as required.</p> |            |                      |              | Description | Panel Number | Forward main landing gear door | 72 | AC/DC power distribution door | 49 |
| Description                    | Panel Number                             |   |            |                      |              |             |              |                                |    |                               |    |
| Forward main landing gear door | 72                                       |   |            |                      |              |             |              |                                |    |                               |    |
| AC/DC power distribution door  | 49                                       |   |            |                      |              |             |              |                                |    |                               |    |
| 9                              |  |   |            |                      |              |             |              |                                |    |                               |    |
| 9                              |  |   |            |                      |              |             |              |                                |    |                               |    |
| 5                              |  |   |            |                      |              |             |              |                                |    |                               |    |
| 4, 9                           |  |   |            |                      |              |             |              |                                |    |                               |    |
| 4, 9                           |  |   |            |                      |              |             |              |                                |    |                               |    |
|                                |  | Continued   |            |                      |              |             |              |                                |    |                               |    |

Figure 48. Example of Aircraft Service Period Adjustment (ASPA) Requirements Card for Aircraft Restoration.

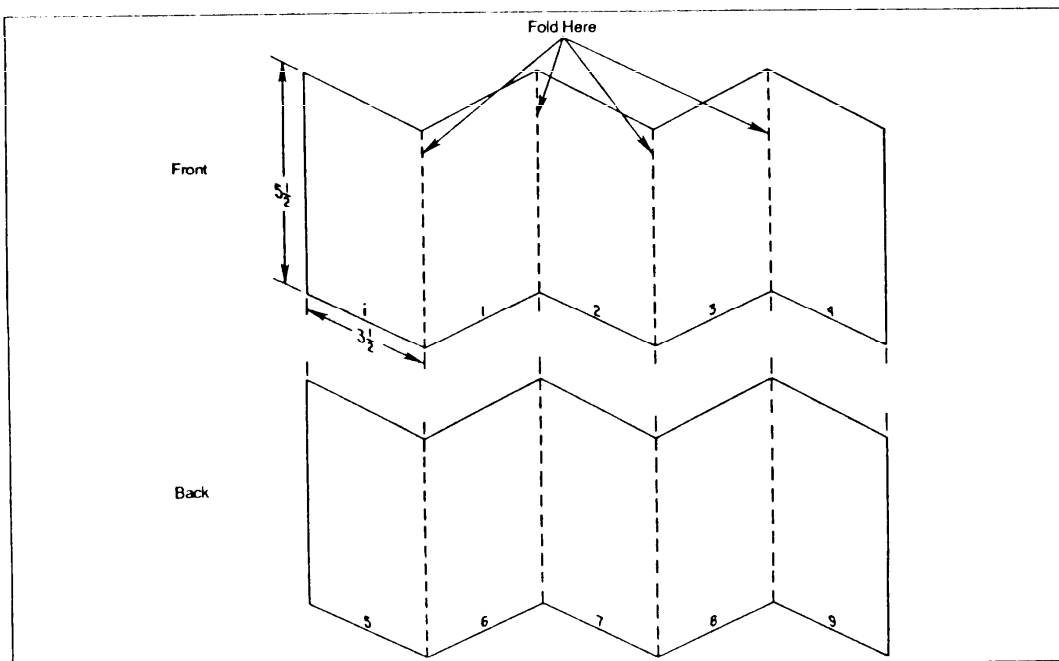


Figure 49. Example of Checklist Format.



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